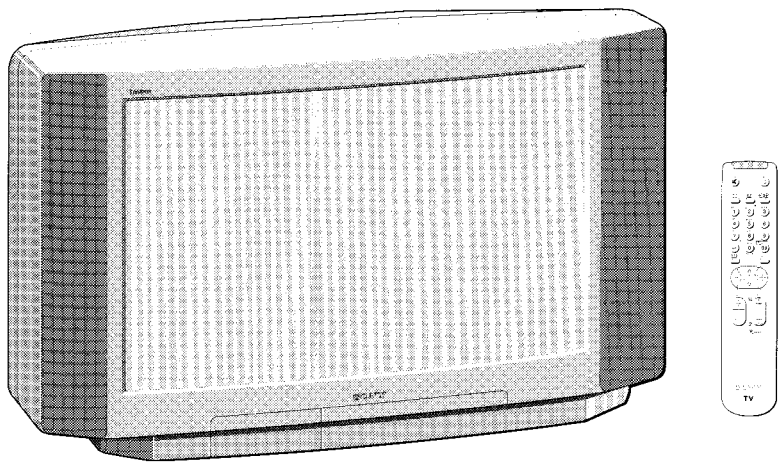
SERVICE MANUAL

BE-4 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-16WT1	RM-836	AEP	SCC-H46C-A	KV-16WT1R	RM-836	OIRT	SCC-H92B-A
KV-16WT1A	RM-836	Italian	SCC-H64C-A	KV-16WT1U	RM-836	UK	SCC-H93A-A
KV-16WT1K	RM-836	OIRT	SCC-H92A-A				



MICROFILM

TRINITRON® COLOR TV

SONY®

ITEM MODEL	Television System	Channel Coverage	Colour System
AEP	B/G/H	VHF: E2-E12, S1-S20 UHF: E21-E69,S21-S41	PAL, SECAM NTSC3.58/4.43 (video input only)
Italian	B/G/H	VHF: E2-E12, S1-S20, A-H2 UHF: E21-E69	PAL NTSC3.58/4.43 (video input only)
OIRT	B/G, D/K	B/G VHF: E2-E12 UHF: E21-E69 Hyper: S1-S41 D/K VHF: R1-R12 UHF: R21-R69	PAL, SECAM NTSC3.58/4.43 (video input only)
UK	I	UHF: E21-E69	PAL NTSC3.58/4.43 (video input only)

MODEL	AEP	Italian	OIRT	UK
Power Consumption	37W	37W	37W	52W

SPECIFICATIONS

Picture Tube — Hi-Black Trinitron
Approx. 40 cm (16 inches)
(Approx. 36 cm picture measured diagonally)
86° -deflection

Input/Output Terminals

[INPUTS]

21-pin connector (CENELEC standard)
- audio / video input
- RGB input

Front connectors
Video (phono jack)
Video (phono jack)

[OUTPUTS]

Ω Headphone jack : minijack (mono)

Sound output	4W (RMS) 5W (music power)
Dimensions	475x335x398 mm approx.
Weight	Approx. 11.5kg
Supplied accessories	RM-836 Remote Commander (1) IEC designated batteries (2) Aerial (1) Aerial connector with built-in 300-75 ohm matching transformer (1)
Other features	TELETEXT

[RM-836]

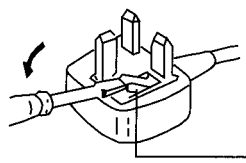
Remote control system	infrared control
Power requirements	3V dc (2 batteries) R6 (size AA)
Dimensions	Approx. 210x45x24 mm (w/h/d)
Weight	Approx. 90g (Not including batteries)

Design and specifications are subject to change without notice.

Item \ Model name	KV-16WT1	KV-16WT1A	KV-16WT1K KV-16WT1R	KV-16WT1U
Pal Comb	OFF	OFF	OFF	OFF
PIP	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	ON	ON
Woofer Box	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON
Scart 2	OFF	OFF	OFF	OFF
Front in (3)	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON
Norm B/G/H	ON	ON	ON	OFF
Norm I	OFF	OFF	OFF	ON
Norm D/K	OFF	OFF	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF
Norm L	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF
Language Preset	German	Italian	OIRT	English

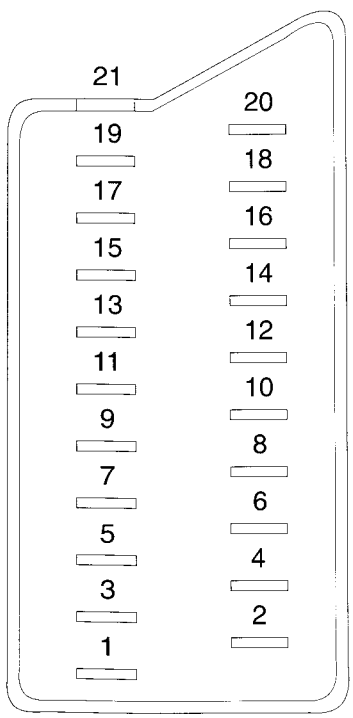
WARNING (KV-16WT1U only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the ASTA mark.
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME.
IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED.
THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.
When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.



How to replace the fuse.
Open the fuse compartment with the screwdriver blade and replace the fuse.

21 pin connector (📠-1)



Pin No		Signal	Signal level
1	○	Audio output B (right)	Standard level: 0.5Vrms Output impedance:less than 1kohm*
2	○	Audio input B (right)	Standard level:0.5Vrms Input impedance:More than 10kohms*
3	○	Audio output A (left)	Standard level:0.5Vrms Output impedance:less than 1kohm*
4	○	Ground (audio)	
5	○	Ground (blue)	
6	○	Audio input A (left)	Standard level:0.5Vrms Input impedance:More than 10kohms*
7	○	Blue input	0.7V±3dB, 75ohms, positive
8	○	Function select (AV control)	High state (9.5—12V):Part mode Low state (0—2V):TV mode Input impedance:More than 10kohms Input capacitance:Less than 2nF
9	○	Ground (green)	
10	○	Open	
11	○	Green	Green signal:0.7V±3dB. 75ohms, positive
12	○	Open	
13	○	Ground(red)	
14	●	Ground (blanking)	
15	○	Red input	0.7V±3dB, 75ohms, positive
	—	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	○	Blanking input (Ys signal)	High state (1—3V) Low state (0—0.4V) Input impedance:75ohms
17	○	Ground (video output)	
18	○	Ground (video input)	
19	○	Video output	1V±3dB, 75ohms, positive Sync:0.3V(–3, +10dB)
20	○	Video input	1V±3dB, 75ohms, positive Sync:0.3V(–3, +10dB)
	—	Video Input/Y (S signal)	1V±3dB, 75ohms, positive Sync:0.3V(–3, +10dB)
21	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

SAFETY-RELATED COMPONENT WARNING!!

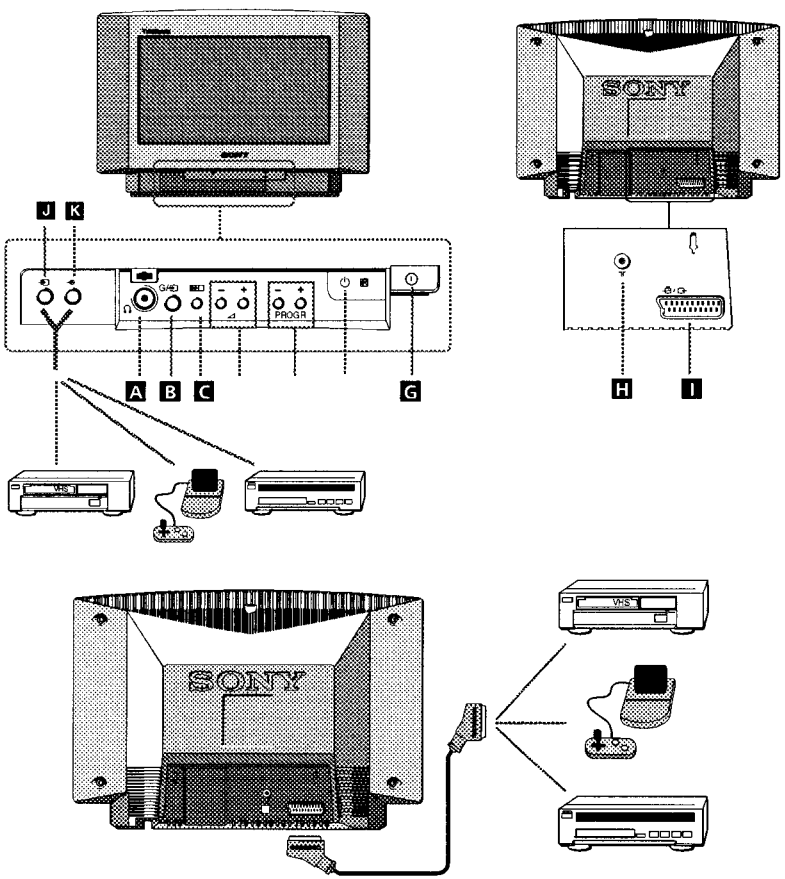
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

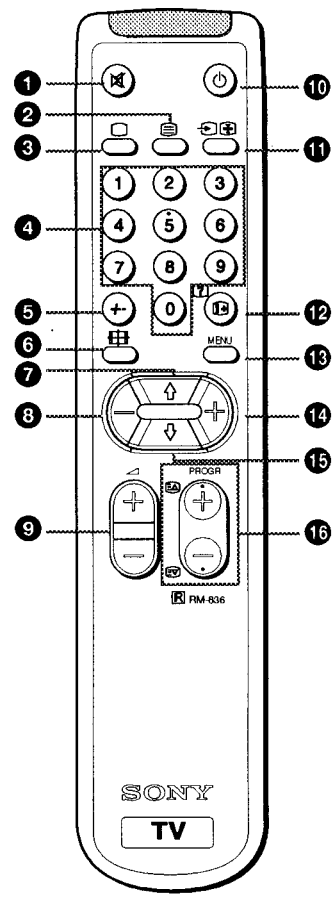
ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.





Please open the flap at the front and at the back of the Instruction Manual for illustrations of the TV set and the Remote Commander. Letters in boxes refer to the buttons on the TV set, numbers in circles to the buttons on the Remote Commander.

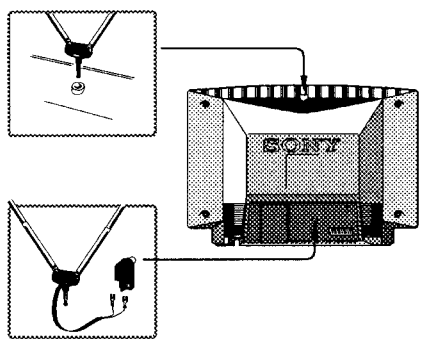
Step 1

Connecting the Aerial

(If you connect a VCR, skip to step 3).

Connect an external aerial to the socket ⊓ H.

Where an external aerial is not available connect the indoor aerial supplied:



1 Insert the supplied aerial into the opening on top of the set.

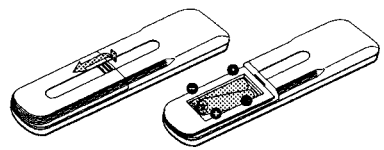
2 Loosen the screws of the aerial clips, insert the aerial clips and tighten the screws.

3 Connect the aerial to the socket ⊓ H on the rear of the set.

4 Adjust the aerial for optimum reception.

Step 2

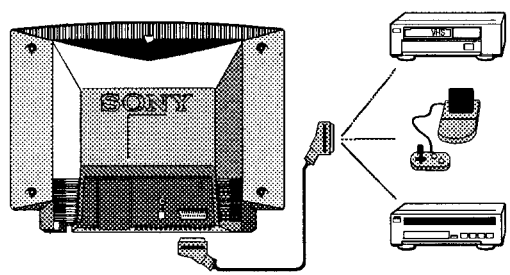
Inserting the Batteries into the Remote Commander



Always remember to dispose of used batteries in an environmental friendly way.

Step 3

Connecting a VCR

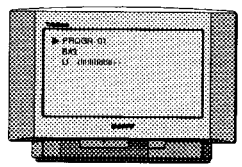


We recommend that you tune in the VCR signal to programme number "0". For details see "Presetting Channels Manually" on page 31.

Step 4

Presetting Channels Automatically

TV searches for all available channels. If manual tuning is preferred see Menu option - Presetting Channels Manually.



1 Plug into mains.
Depress power switch ⏻ G on TV set.

2 Press and hold ⏭ C on TV set for 2 seconds.
Auto tuning starts and screen shows.

When Auto tuning stops, the programme position 1 is displayed.

TV Operation

This section explains functions used whilst watching TV. Most operations are carried out using the Remote Commander (numbers in circles). All basic functions are also available on the TV set (letters in boxes).

To	Press
Switch on	⏻ G on TV
Switch off temporarily	⏻ ⑩ *TV is now in standby mode, ⏻ indicator F on TV lights.*
Switch on again	▭ ③, PROGR +/- ⑯ E or any number button ④
Switch off completely	⏻ G on TV *To save energy we recommend switching off completely when TV is not in use.*
Select programmes	PROGR +/- ⑯ E or number buttons ④ *For double digit numbers press -/-- ⑤ then the number e.g. For 23, press -/-- ⑤ then 2 and 3.*
Display the programme number	ⓘ ⑫ *Press again to make programme number disappear.*
Adjust the volume	+/- ⑨ D
Mute the sound	🔇 ① *Press again to restore sound.*
View video input	⏎ ⑪ B *Press again to return to TV programme.*
Change the Screen format	Press repeatedly ⊞, ⑥ to change the screen format as follows: Zoom 1 (imitation of 16:9 for 4:3 broadcasts) ➡ Zoom 2 (imitation of 16:9 for movies broadcast in cinemascopic format) ➡ Zoom 2 ⬆ (whilst in Zoom 2 mode, press the green button to scroll the screen up to show the subtitles. Press the blue button to return to Zoom 2). Zoom 3 (for 16:9 broadcast) ➡ 4:3 (normal 4:3 format).

Viewing Teletext

Teletext is an information service broadcast by TV stations.

1 Select the channel which carries the teletext service you wish to receive.

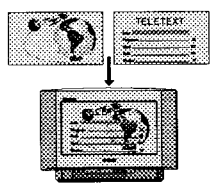
2 Press ⊜ ❷ to switch on teletext.

3 Input three digits for the page number using the programme number buttons ❹ or PROGR +/- ⓰ E.

4 Press ▢ ❸ to switch off teletext.

Teletext errors may occur if the broadcasting signals are weak.

Using Other Teletext Functions



Superimposing teletext on the TV

Press ⊜ ❷ once in teletext mode or twice in TV mode to superimpose teletext on the TV screen.
Press ⊜ ❷ again to cancel superimposing.

Freezing a teletext subpage

Press ⊕ ⓫ (HOLD) to freeze the subpage. Freezing the page prevents the information that is displayed from being updated.
Press ⊕ ⓫ to cancel HOLD and allow update to continue.

Revealing concealed information (eg: answers to a quiz).

Press ? ⓬ to reveal information.
Press again to conceal the information.

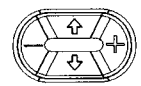
Using colour buttons to access pages

When the colour coded menu appears at the bottom of a page, press the colour button (red, green, blue or yellow) ❽❼⓯⓮ to access the corresponding page.

Use buttons on Remote Commander to control Menu screen.

MENU
Menu Screen on/off

Red –
decrease/select



Green
Scroll up

Yellow
increase/confirm(OK)

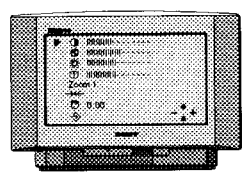
Blue
Scroll down

Adjusting the Picture

1 Press MENU ⓭.

2 Press green ❼ or blue ⓯ button to select the item you wish to change.

Symbol	Item	- Effect +	
◑	Picture	Less	More
◕	Colour	Less	More
☼	Brightness	Darker	Brighter
◫	Sharpness	Softer	Sharper



3 Press red ❽ or yellow⓮ button to change levels.

4 Press MENU ⓭ to return to normal TV screen.

To reset to factory preset picture levels, press green ❼ or blue ⓯ button to select →•← and press yellow (OK) ⓮ button.

Changing of the Screen Format

You have the possibility to change the aspect ratio for the TV display for wide screen effects.

1 Press MENU ⓭.

2 Press repeatedly the blue ⓯ button to select Zoom 1.

3 Press the red ❽ or yellow ⓮ button repeatedly to select one of the following effects:

Zoom 1: imitation of 16:9 for 4:3 broadcasts.

Zoom 2: imitation of 16:9 for movies broadcast in cinemascopic format.

Zoom 2↑: when using Zoom 2 mode, part of the top and bottom of the picture are cut off. Using Zoom 2↑ you can move the picture upwards in order to see the cut-off part of the screen (e.g. to read subtitles).

Zoom 3: for 16:9 broadcast.

4:3 for normal 4:3 format.

4 Press MENU ⓭ to return to normal TV screen.

Note: With a RGB source the format 4:3 is not available.

Using the Sleep Timer

The TV may be set to switch to the standby mode automatically after a length of time chosen by you. You may set the time in 30 minutes steps up to 4 hours.

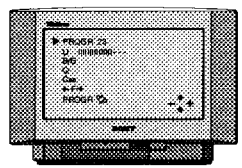
1 Press MENU ⓭.

2 Press green ❼ or blue ⓯ button to select ⏻

3 Press red ❽ or yellow ⓮ button to set time delay.
0.00 (OFF) 0.30 1.00 1.30 .... 4.00

4 Press MENU ⓭ to return to normal TV screen.
When watching TV, press ⓬ to display time remaining.

Presetting Channels Manually



Up to 60 programme positions are available for presetting channels.

1 Press MENU ⓭.

2 Press green ❼ or blue ⓯ button to select ⇨ and press yellow (OK) ⓮ button.

3 Select programme number using PROGR +/- ⓰ E or the number buttons ❹.

4 Press green ❼ or blue ⓯ button to select tuning bar and press red ❽ or yellow ⓮ button to start channel search. When a channel is found the tuning bar stops moving and you see the picture.

5 If you want to store, press green ❼ or blue ⓯ button to select ◇ and press yellow (OK) ⓮ button. If you don't want, press red ❽ or yellow ⓮ button to continue search.

6 Repeat steps 3 to 5 for all other channels.

7 Press MENU ⓭ to return to normal TV screen.

Skipping Programme Positions

You can skip unused programme positions when selecting channels with the PROGR +/- ⑯ E buttons. You can still select them, however, using the number buttons ④.

1 Press MENU ⑬.

2 Press green ⑨ or blue ⑮ button to select ⇨ and press yellow ⑭ button.

3 Select programme number you want to skip using PROGR +/- ⑯ E button or number buttons ④.

4 Press green ⑦ or blue ⑮ button to select Coo and press yellow (OK) ⑭ button.

5 Press green ⑦ or blue ⑮ button to select ◇ and press yellow (OK) ⑭ button to store.

6 Repeat steps 3 to 5 for other unused programme positions.

7 Press MENU ⑬ to return to normal TV screen.

Fine-Tuning Channels

You can fine tune a stored channel.

1 Select the channel you wish to fine tune.

2 Press MENU ⑬.

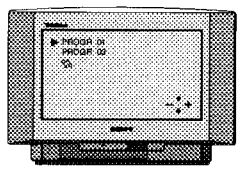
3 Press green ⑦ or blue ⑮ button to select ⇨ and press yellow (OK) ⑭ button.

4 Press green ⑦ or blue ⑮ button to select ←F→ and use red ⑧ or yellow ⑭ button to adjust tuning.

5 Press green ⑦ or blue ⑮ button to select ◇ and press yellow (OK) ⑭ button to store.

6 Press MENU ⑬ to return to normal TV screen.

Exchanging Programme Positions



After tuning you may wish to rearrange the programme positions.

1 Press MENU ⓭.

2 Press green ❼ or blue ⓯ button to select ⇳ and press yellow (OK) ⓮ button.

3 Press green ❼ or blue ⓯ button to select PROGR ⇳ and press yellow (OK) ⓮ button.

4 Press red ❽ or yellow ⓮ button to select the first programme position.

5 Press the blue ⓯ button.

6 Press the red ❽ or yellow ⓮ button to select the second programme position.

7 Press blue ⓯ button to select ⇳ and press yellow (OK) ⓮ button to exchange.

8 Repeat steps 4 to 7 for other programme positions.

9 Press MENU ⓭ to return to normal TV screen.

Using 21-pin Connector

Your TV has one 21-pin connector **I** on the rear of the set. You can connect optional audio or video equipment to this connector, such as a VCR, video games or a video disc player.

1 Press ⇥ ⓫ **B** to view the video input signal.

2 Press ⇥ ⓫ **B** or ▢ ❸ to return to normal TV operation.

Using the Connectors on the front

Your TV has two connectors (phono jacks) (⇥ video **J**, ⇥ audio **K**) on the front of the set. You can connect e.g. a video game to these connectors.

1 Press the yellow **B** button ⇥ on the TV once to view the input signal in the Zoom 3 mode, twice for 4:3 mode and once again to return to normal TV operation.

Note: Make sure not to switch on the equipments connected to the 21-pin connector and the front connectors at the same time.

Connecting Headphones

Plug in the headphones to the ∩ **A** socket on the front of the TV set. The sound from the speaker is now muted.

Troubleshooting

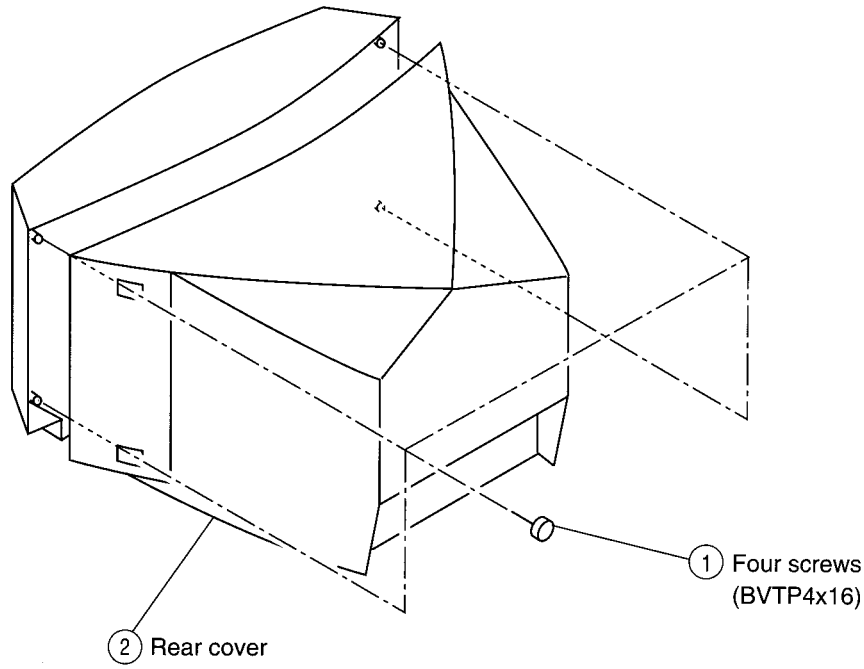
Here are some simple solutions to the problems which affect the picture and sound.

Problem	Solution
No picture, screen is dark, no sound	• Plug the TV in. • Press ⏻ G on the TV. • If ⏻ indicator F is on press ▢ ❸ or the programme number ❹ on the remote commander. • Check the aerial connection. • Check that the video source is on. • Turn the TV off for 3 or 4 seconds and then turn it on again using ⏻ G.
Poor or no picture (screen is dark, sound is good)	• Press MENU ⓭ and adjust brightness picture and colour balance level.
Good picture, no sound	• Adjust the volume ◿ +/–❾D. • Disconnect any headphones. • If 🔇 is displayed on the screen, press 🔇 ❶.
No colour on colour programmes	• Press MENU ⓭ and adjust colour balance. • Press MENU ⓭ and reset to factory settings.
Distorted picture when changing programmes or selecting teletext	• Turn off the equipment connected to the 21-pin connector I.
Remote commander does not function	• Replace the batteries.

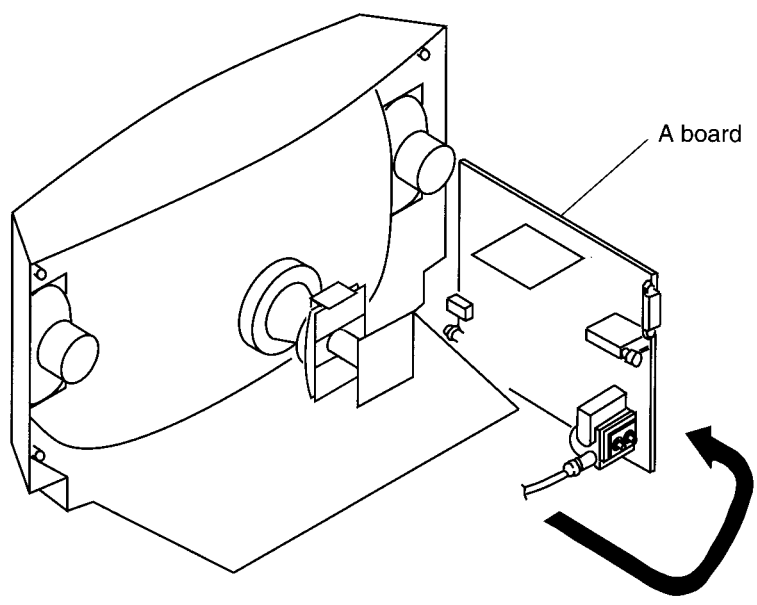
• If you continue to have these problems, have your TV serviced by qualified personnel.
• NEVER open the casing yourself.

SECTION 2
DISASSEMBLY

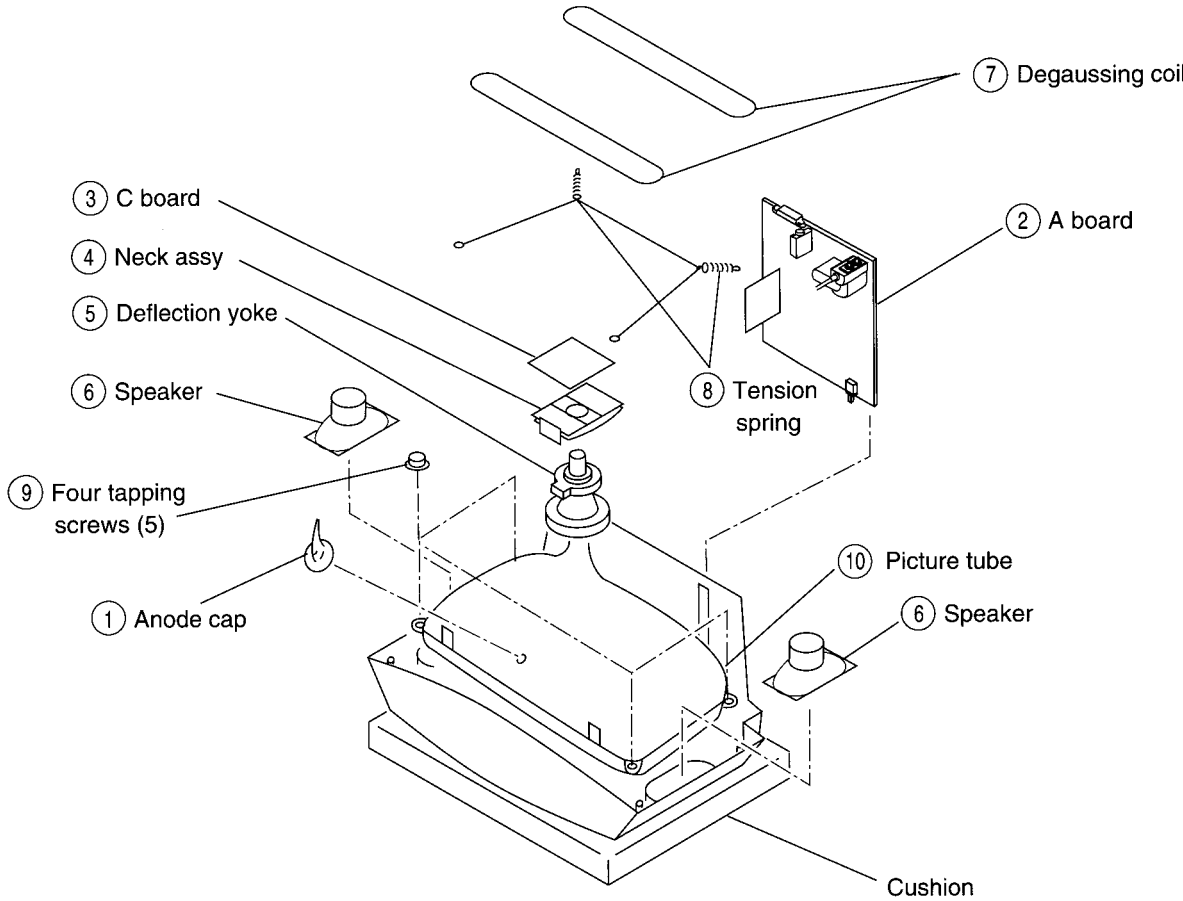
2-1. REAR COVER REMOVAL



2-2. SERVICE POSITION



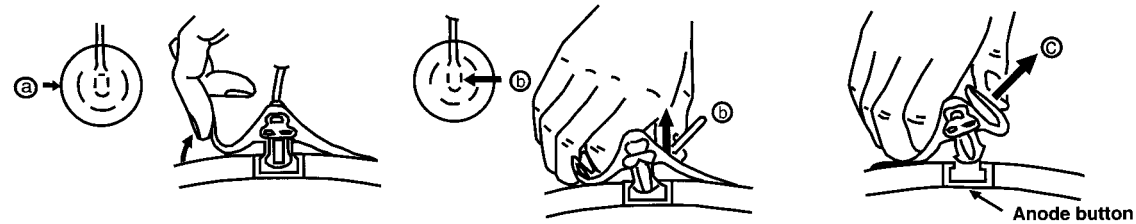
2-3. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

* **REMOVING PROCEDURES.**



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ

② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ

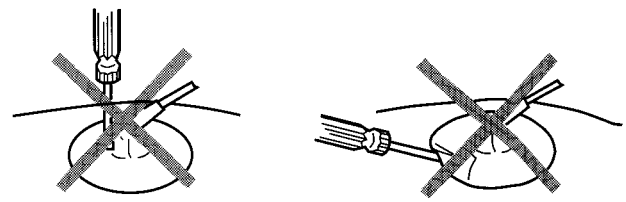
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ

• HOW TO HANDLE AN ANODE-CAP

① Don't damage the surface of anode-cap with sharp shaped material !

② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built into the rubber.

③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or damage the rubber.



SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with the rated power supply voltage, unless otherwise noted.

The Contrast and Brightness controls should be set as follows unless otherwise noted:

◑ CONTRAST control ..... Normal
☼ BRIGHTNESS control ..... Normal

Perform the adjustments in the following order:
1. Beam Landing
2. Convergence
3. Focus
4. Screen (G2), Drive, Sub Colour and Sub Brightness.
5. White Balance Auto Adjustment

Note: Test Equipment Required.
1. Colour bar/Pattern Generator
2. Degausser

Preparation:
- In order to reduce the influence of external magnetic forces on the picture tube, face the TV set in an easterly or westerly direction.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3-1. BEAM LANDING

1. Input an all white raster signal from the pattern generator. Set the picture to maximum and adjust BRIGHTNESS for clear picture.
2. Set the Neck assy to the position Fig. 3-1.
3. Adjust Focus and Convergence.
4. Loosen the deflection yoke screw and move the Purity Adjustment handle to the centre. (Fig. 3-2.)
5. Switch the pattern generator to Green.
6. Move the deflection yoke backward, and adjust with purity control so that Green is at the center and Blue and Red are evenly spaced at the side. (Fig. 3-3.)
7. Move the deflection yoke forward, and adjust so the entire screen becomes Green.
8. Switch the pattern generator to Red and Blue, and confirm the condition.
9. When position of the deflection yoke has been determined, tighten it with the deflection yoke mounting screw.
10. When the landing at the corners are not correct, adjust by using disk magnets. (Fig. 3-4.)

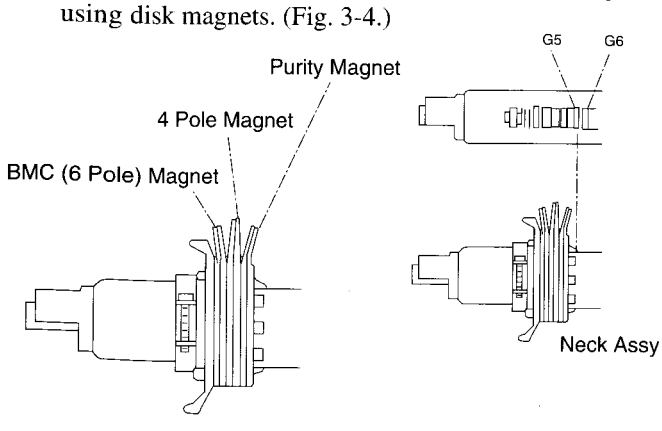


Fig. 3-1

Fig. 3-2

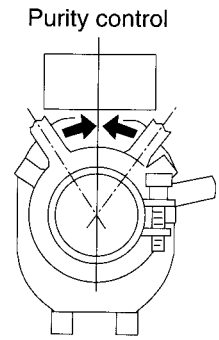


Fig. 3-3

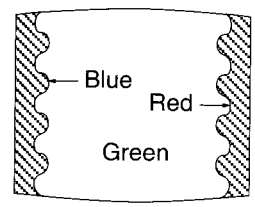
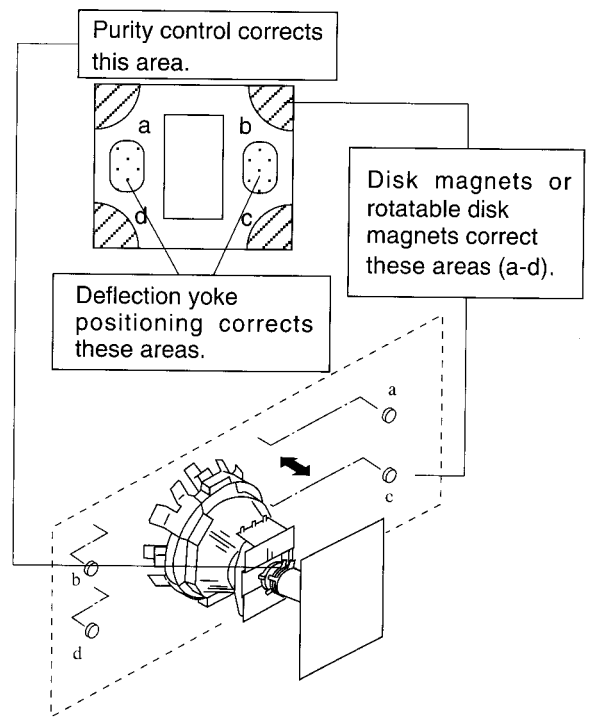


Fig. 3-4



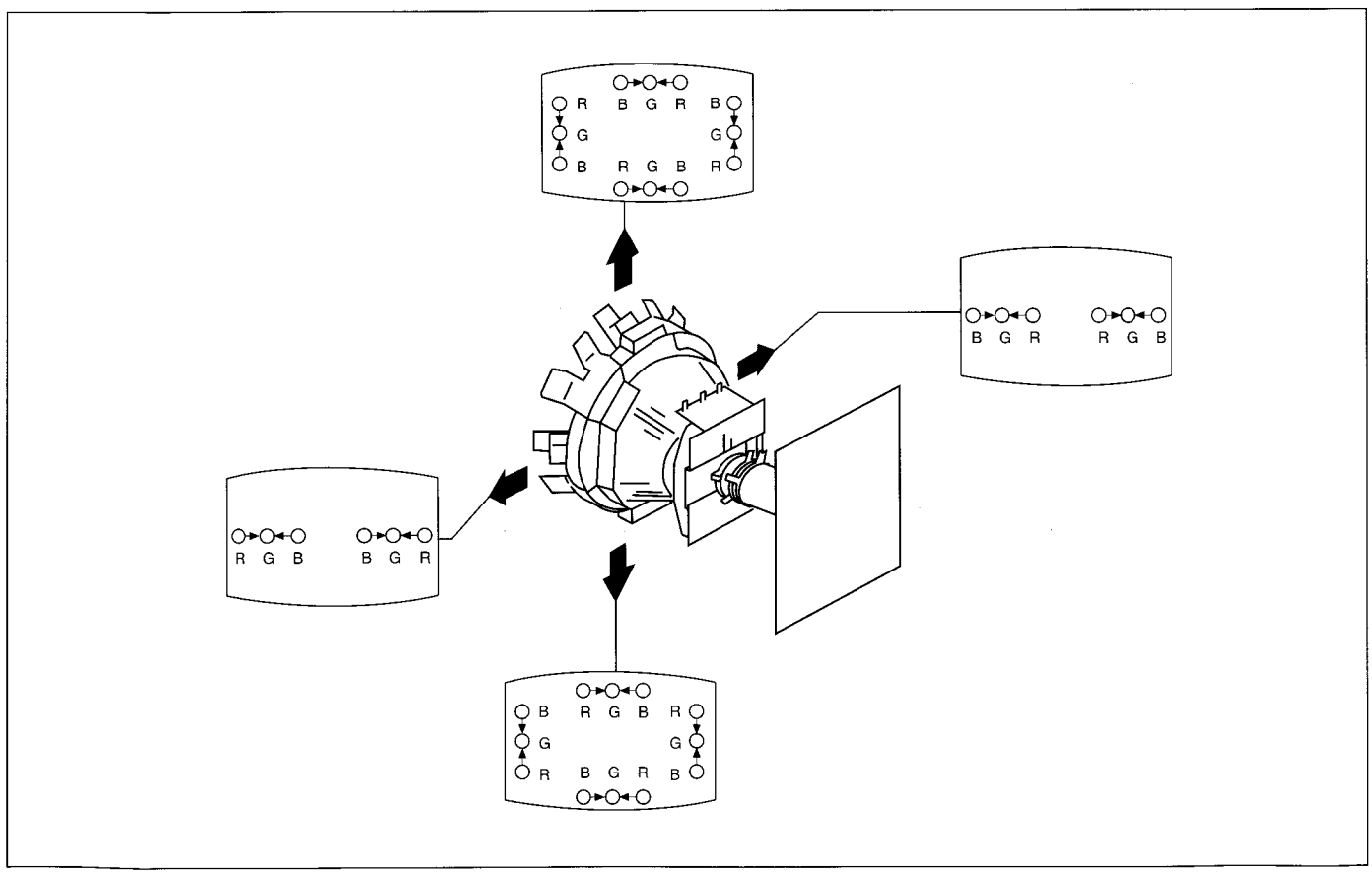
3-2. CONVERGENCE

(1) Static Convergence

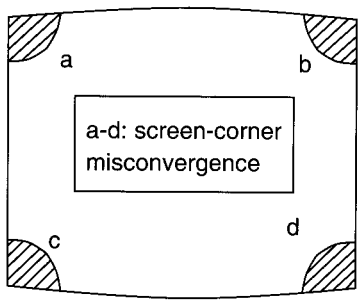
1. Input a dot pattern from the pattern generator and adjust the picture to normal.
2. Loosen the magnet stopper.
3. Adjust the red and blue dots using the pole magnet.
4. Converge the red and blue dots to the green dots using the 6 pole magnet.
5. Fasten the magnet stopper.

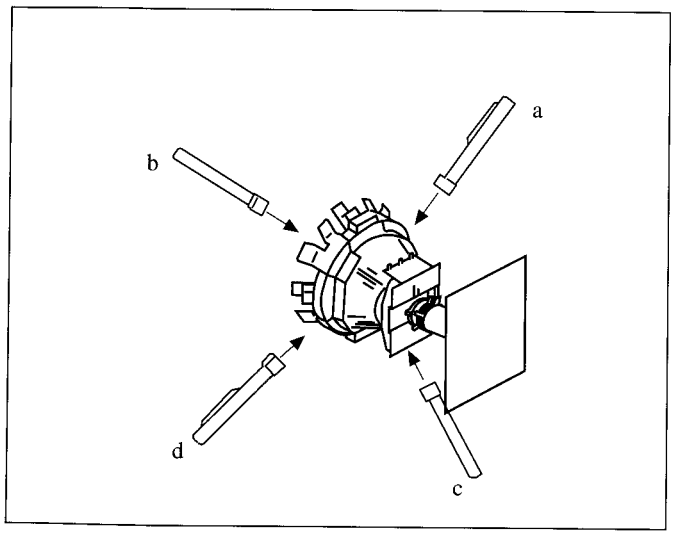
(2) Corner Convergence Adjustment

1. If the sides of the screen are misconverged then adjust by tilting the deflection yoke up, down or in the left or right direction.
2. Once the correct position has been determined secure the deflection yoke using the wedges.



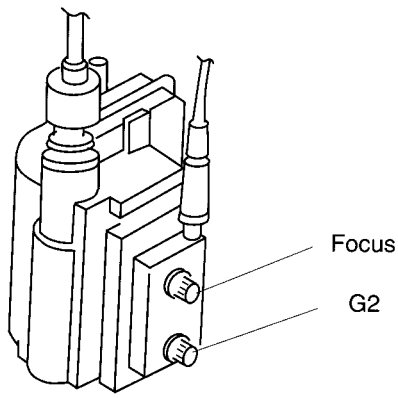
(3) Screen-corner Convergence.



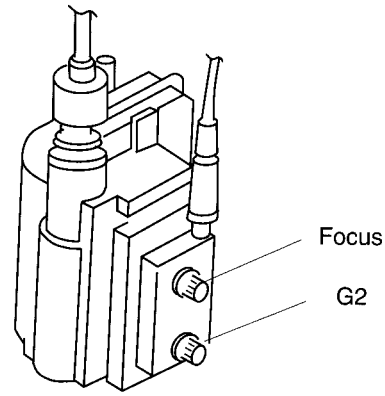


3-3. FOCUS

Adjust the FOCUS control RV704 so that the whole screen is in best focus.



3-4. SCREEN (G2), DRIVE, SUB COLOUR and SUB BRIGHTNESS.

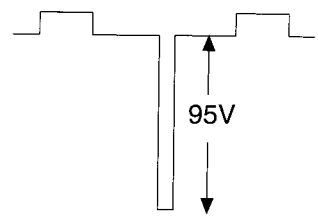


Screen (G2) setting

1. Input a 0 IRE (Black Level) signal from the pattern generator.
2. Enter into the Service Mode "Test""Test" and 38.
3. Adjust G2 VR until the Down arrow is displayed.
4. Adjust G2 VR until the Down arrow just disappears.
5. Press the TV Button on the Remote Commander to store the data.

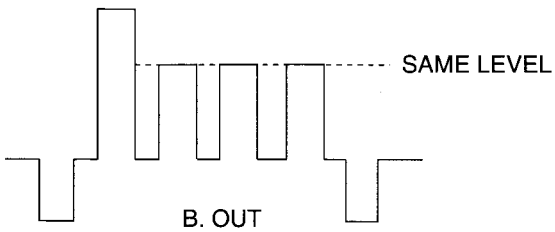
Drive Level

1. Input a Video signal containing a small area of 100% white on a black background.
2. Connect an oscilloscope to Pin (7) of J901 (R OUT) on the C Board.
3. Set the Picture to maximum using "Test""Test" and 01.
4. Enter into the Service mode (Adjust Menu).
5. Using the Blue and Green buttons select "RED HWB".
6. Using the Red and Yellow buttons on the Remote Commander adjust until the oscilloscope waveform has an amplitude of 95V.



Sub Colour Adjustment

1. Input a PAL colour bar pattern from the pattern generator.
2. Connect an oscilloscope to Pin (3) of J901 (B OUT) on the C Board.
3. Enter into the Service Mode "Test""Test" and 22.
4. Using the Red and Yellow buttons on the Remote Commander adjust until the oscilloscope waveform becomes as follows :



Note : If the TV is able to receive PAL and SECAM transmissions, repeat the above procedure using a Secam colour bar signal.

Sub Brightness Adjustment

1. Input a Philips pattern from the pattern generator.
2. Enter into the Service Mode "Test""Test" and 23.
3. Using the Red and Yellow buttons on the Remote Commander adjust until the 0 IRE of the grey scale and the cut off are only slightly visible on the screen.

3-5. WHITE BALANCE AUTO ADJUSTMENT

1. Enter into the Service Mode using the remote commander.
2. Adjust the brightness and contrast levels to normal.
3. Using the service mode menu set the R OUT, G OUT and B OUT data to "OFF".
4. Apply 165V±0.3V volts DC from an external power supply to the R, G, and B cathodes.
5. Adjust the G2 VR until the flyback line just disappears.
6. Remove the DC power supply and from the menu set the R OUT, G OUT and B OUT data to "ON".

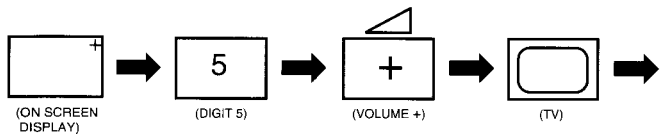
SECTION 4
CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied Remote Control Commander RM-836.

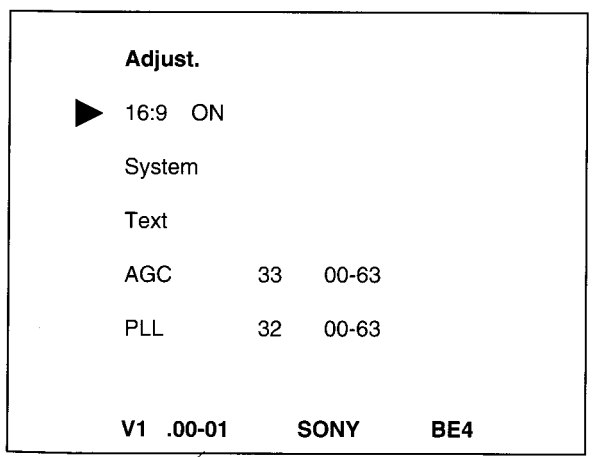
HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power of the set and enter into stand-by mode.
2. Press the following sequence of buttons on the Remote Control Commander.



"TT-- " will appear in the top right corner of the screen Other status information will also be displayed.

3. Press the MENU button on the Remote Commander to obtain the menu on the screen.



4. Press the Blue (Next) or Green (previous) buttons to select the adjustment item from the table.
5. Press the Yellow (+) or Red (-) buttons to change the data as required.
6. Turn off the power to quit the service mode when adjustments are completed.

Range of adjustments available from the on screen menu system.

Adjustment	Set	Range
16:9 Off	Select	ON/OFF
System	Select	BG-L, BG-DK UK, Eire, BG
Text	Select	EAST/WEST
AGC	Adj.	00 - 63
PLL	Adj.	00 - 63
B&W Delay	Adj.	00 - 63
Ver Size	Adj.	00 - 63
Ver, Breath	00	00 - 63
Par, Ampl	00	00 - 63
Par, Tilt	32	00 - 63
V, Linear	Adj.	00 - 63
Corn, corr	00	00 - 63
V, Cen or EW	Adj.	00 - 63
V, Position	42	00 - 63
H, Centre	Adj.	00 - 63
Blue HWB	Adj.	00 - 63
Green HWB	Adj.	00 - 63
Red HWB	Adj.	00 - 63

4-2. TEST MODE 2:

TT -- Mode is available by pressing the Test button twice, O.S.D 'TT --' appears. The functions described below are available by pressing two digits. To release the 'TT --' mode, press 0 twice, press 'TEST' , press 'TV' or switch the TV into Stand-by mode.

00	Switch 'TT--' Mode off.
01	Set picture level to maximum.
02	Set picture level to minimum.
03	Set volume to 35%.
04	Set volume to 50%.
05	Set volume to 65%.
06	Set volume to 80%.
07	Ageing condition (picture max., brightness max.).
08	Shipping condition (Analog values are RESET to factory setting, Prog 1 is selected, TT--mode switched off, Vol = 35%).
09	Dummy.
10	No function.
11	Dummy
12	Text Picture Level Offset (Enable/Disable)
13	Select Odd / Even field for Non-interlaced teletext.
14	Select Interlaced / Non-interlaced teletext display.
15	Read factory setting from ROM to NVM - Reads Volume, Brightness, Picture, Hue, Sharpness and Colour values from ROM to the actual used values (Last Power Memory).
16	No function
17	Enable / Disable Sharpness Operation.
18	Enable / Disable Teletext Operation.
19	Enable / Disable NTSC Operation.
20	No function.
21	Sub Picture.
22	Sub Colour (Pal / Secam Different Stores)
23	Sub Brightness.
24	Destination System BG/L.

25	Destination Systems BG/L.
26	Destination Systems I.
27	Destination System I/I'.
28	Destination BG only.
29	Dummy.
30	No function.
31-32	Dummy.
33	Auto AGC Adjust.
34	Auto PLL Adjust.
35-37	Dummy.
38	Enter G2 adjustment mode.
39	Dummy.
40	No function.
41	Re-initialise NVM.
42	Dummy.
43	Re-initialise Geometry settings.
44-47	Dummy
48	Set NVM testbyte to 44h in NVM.
49	Erase NVM testbyte
50	No function.

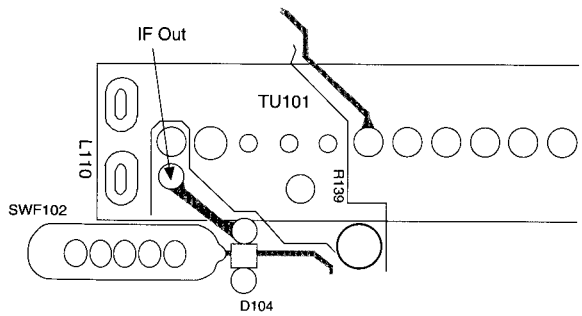
Note : For Test Modes 41 - 50, it is necessary to ensure that the TV is set to Prog 59.

IF ADJUSTMENT (AUTOMATIC)

1. Input a 38.9 MHz 100dBμ CW signal at the IF Out injection point.
2. Enter into service mode and press 34.
3. Connect a digital voltmeter to IC101 pin (23).
4. Check AFT 2.5V ±0.3V dc.
5. Press '00' on the Remote Commander.

SYSTEM L ADJUSTMENT (French Models)

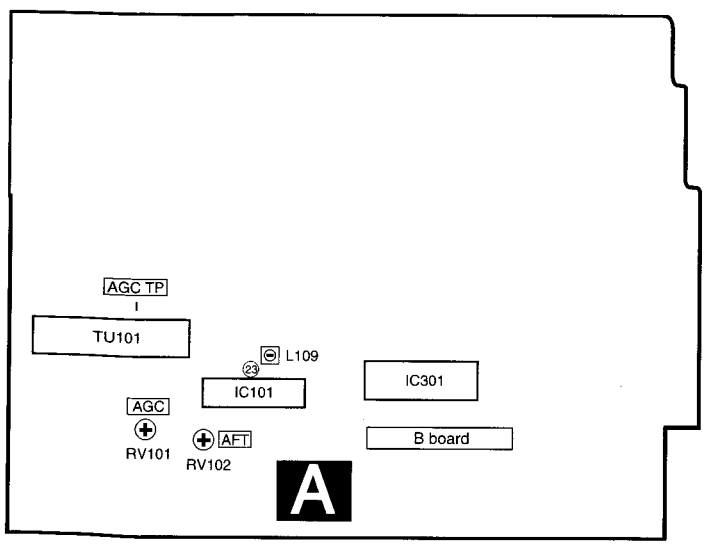
1. Input a 33.9MHz 100dBμ CW signal at the IF Out injection point.
2. From the On Screen Menu set System to L band 1.
3. Connect a digital voltmeter to IC101 pin (23).
4. Adjust RV102 AFT for 2.5V ±0.3V dc.



- A Board Print Side -

AGC ADJUSTMENT

1. Receive an off-air signal.
2. Enter into the Service adjust menu and select AGC.
3. Adjust the data using the Red and Yellow buttons on the Remote Commander so that there is no snow or cross - modulation visible on the screen.
4. Change the receiving off-air channel, and confirm the above status.



- A Board Component Side -

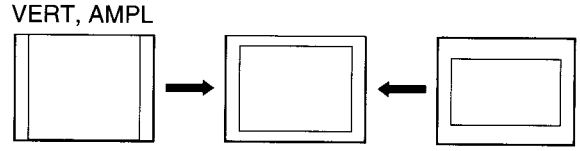
DEFLECTION SYSTEM ADJUSTMENT

1. Enter into the service mode.
2. Using the Blue or Green buttons select the Adjust item.
3. Press the Yellow button to enter the adjustment submenu.
4. Select and adjust each item in order to obtain the optimum image.

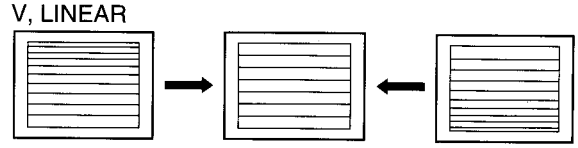
See Note on page 23

Adjustment	Set	Range
VERT, AMPL	Adj.	00 - 63
VER, BREATH	00	00 - 63
PAR, AMPL	00	00 - 63
PAR, TILT	32	00 - 63
V, LINEAR	Adj.	00 - 63
CORN, CORR	Adj.	00 - 63
V, CENTRE	Adj.	00 - 63
V, POSITION	42	00 - 63
H, CENTRE	Adj.	00 - 63

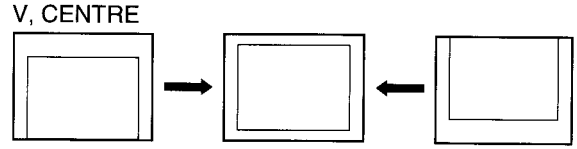
VERT, AMPL



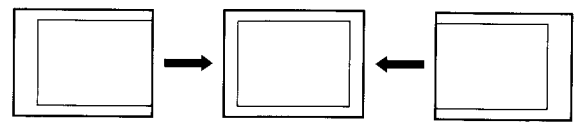
V, LINEAR



V, CENTRE

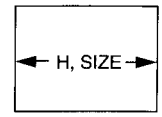


H, CENTRE



H, SIZE

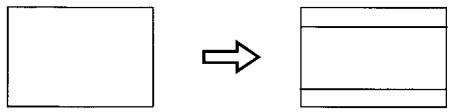
RV802



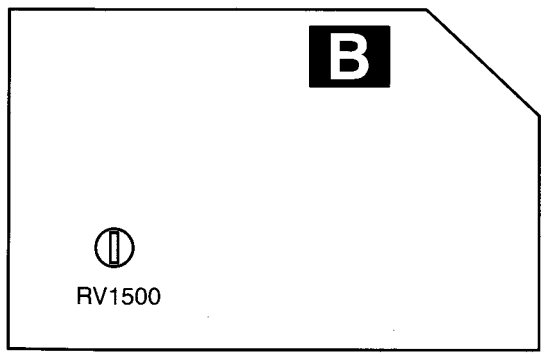
Fit the link as required to obtain the correct horizontal picture size. Remove the link if the H, SIZE is to large.

VERTICAL OVERSCAN BLANKING ADJUSTMENT

1. Receive an Off-Air signal.
2. Enter into menu and select zoom3. (zoom mode)
3. Enter into the service mode.
4. Using the Blue or Green buttons select Vert. Amp (V-size). Take note of the actual value and reduce it as indicated below.



5. Adjust RV1500 on B-board to obtain the same video blanking area at the top and bottom of the screen.
6. Readjust the Vert.Amp (V-size) increasing it to the original setting.



- B Board Component Side -

Note : Deflection System Adjustments should not be carried out whilst using an NTSC (60Hz) signal, or if the signal is unlocked.

4-3. BE-4 SELF DIAGNOSTIC SOFTWARE

The identification of errors within the BE-4 chassis is triggered in 1 of 2 ways :- 1: Bus busy or 2: Device failure to respond to I^2C.
In the event of one of these situations arising the software will first try to release the Bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each relevant device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED by a Series of flashes which must be counted (See Table 1)., Non fatal errors are reported with this method.

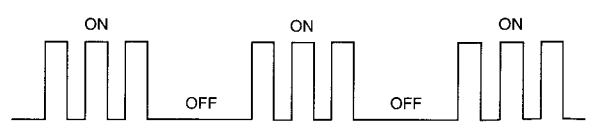
If a fatal error is found, the set will simply stay in whichever state it was when the error occurred, but if a non fatal error occurs the set will try to continue to operate.

Table 1

No of Flashes	Meaning
2	IC301 not acknowledging I^2C transmission, NVM OK.
3	IC301 FAULT (Not OK) - flags
4	IC301 - No H Flyback
5	IC301 - Stack Overflow.
6	Overvoltage / Overcurrent Protection (Pin 52) high.
7	IC002 not acknowledging I^2C transmission, IC301 OK.
8	IC002 and IC301 - No I^2C acknowledgment.
9	General I^2C Error (SDA or SCL being held low) (IC301, IC001, IC002, CN001)

Flash Timing Example : e.g. error number 3

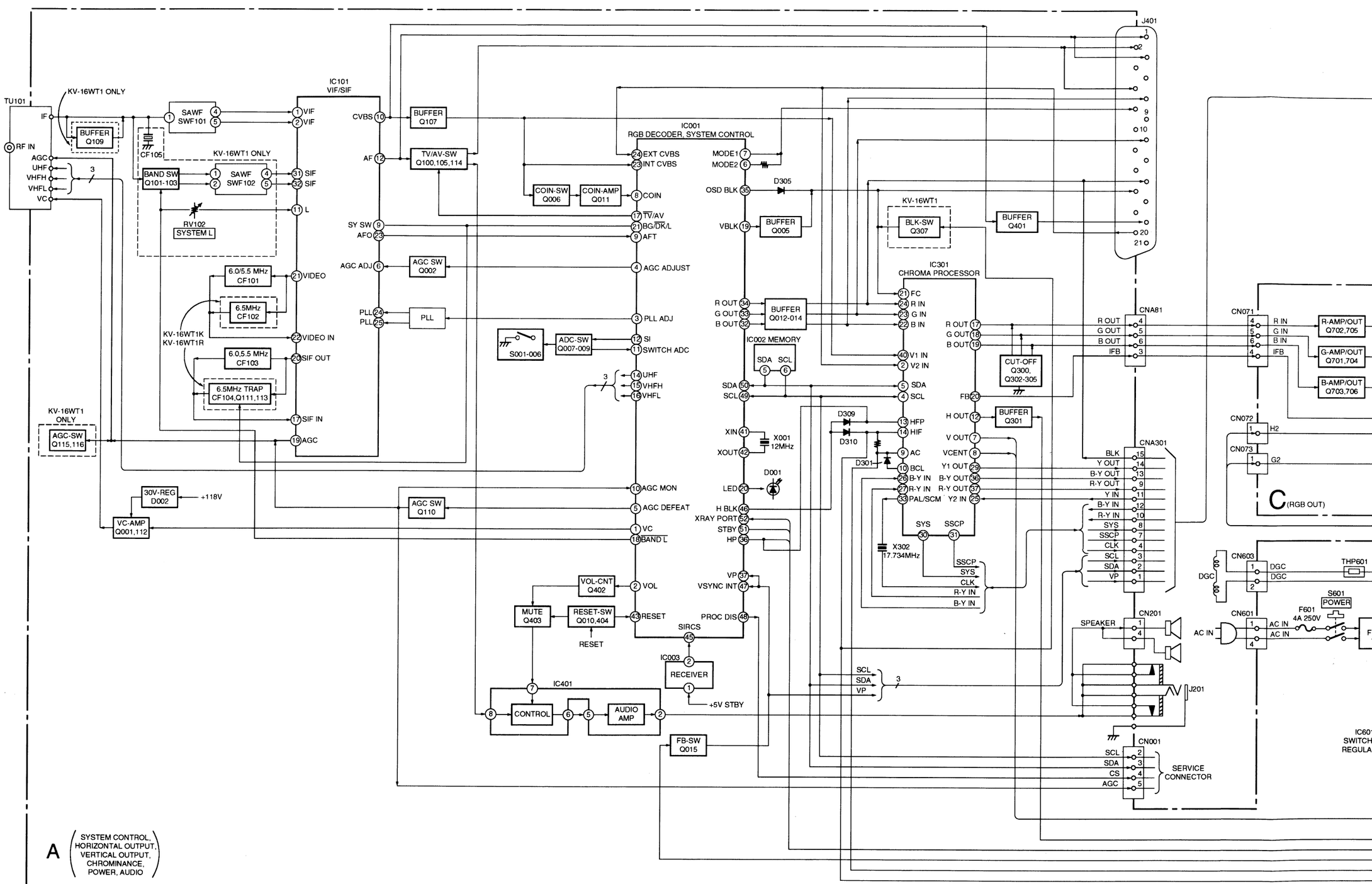
Stby LED

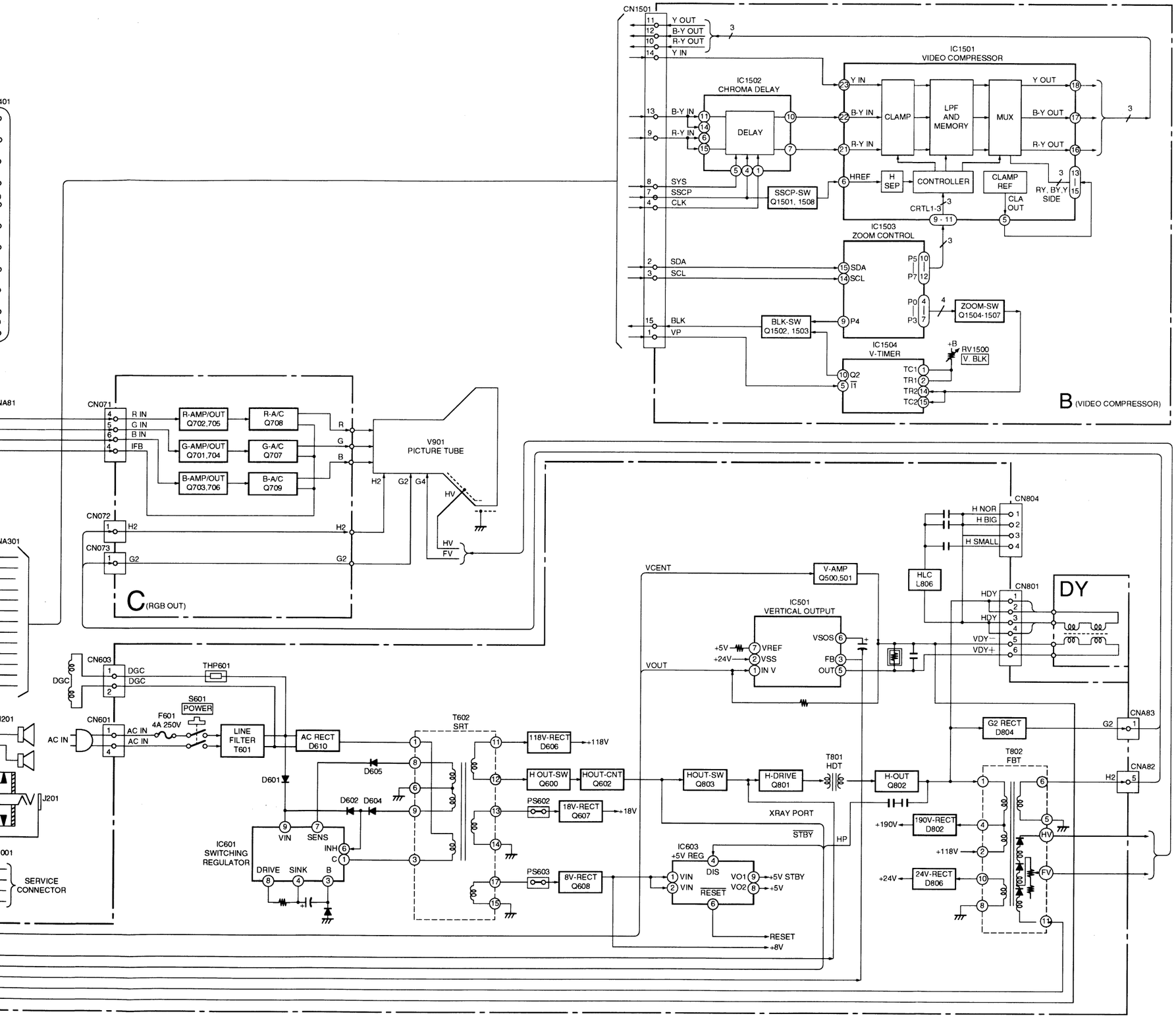


MEMO

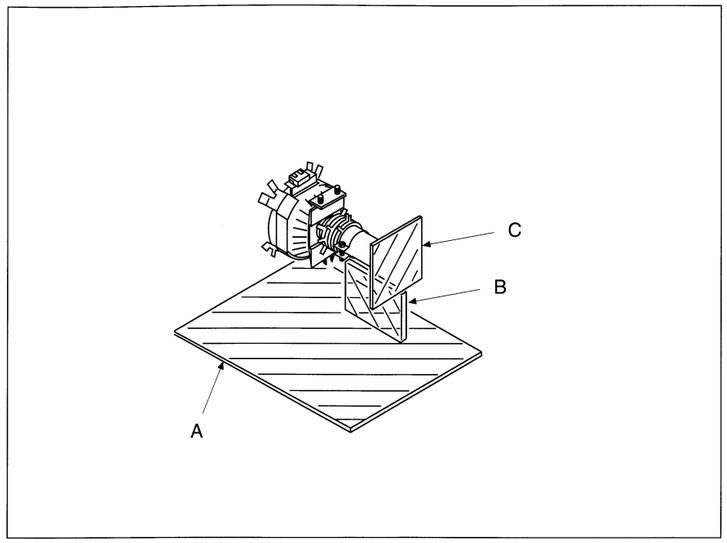
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM




CN1501
Y OUT
B-Y OUT
R-Y OUT
Y IN
IC1501
VIDEO COMPRESSOR
IC1502
CHROMA DELAY
DELAY
CLAMP
LPF AND MEMORY
MUX
H SEP
CONTROLLER
CLAMP REF
RY, BY,Y SIDE
CLA OUT
CRTL1-3
SYS
SSCP
CLK
SSCP-SW Q1501, 1508
HREF
IC1503
ZOOM CONTROL
SDA
SCL
ZOOM-SW Q1504-1507
BLK
VP
BLK-SW Q1502, 1503
IC1504
V-TIMER
RV1500
V. BLK
B (VIDEO COMPRESSOR)
CN071
R IN
G IN
B IN
IFB
R-AMP/OUT Q702,705
G-AMP/OUT Q701,704
B-AMP/OUT Q703,706
R-A/C Q708
G-A/C Q707
B-A/C Q709
V901
PICTURE TUBE
CN072
CN073
H2
G2
HV
FV
C (RGB OUT)
CN804
H NOR
H BIG
H SMALL
HLC L806
CN801
DY
HDY
VDY
VCENT
V-AMP Q500,501
IC501
VERTICAL OUTPUT
VREF
VSS
IN V
VSOS
FB
OUT
VOUT
CN603
DGC
THP601
S601 POWER
F601 4A 250V
CN601
AC IN
LINE FILTER T601
AC RECT D610
T602 SRT
118V-RECT D606
+118V
H OUT-SW Q600
HOUT-CNT Q602
HOUT-SW Q803
H-DRIVE Q801
T801 HDT
H-OUT Q802
T802 FBT
G2 RECT D804
CNA83
CNA82
D601
D605
D602 D604
PS602
18V-RECT Q607
+18V
XRAY PORT
STBY
HP
190V-RECT D802
+190V
+118V
24V-RECT D806
+24V
IC601
SWITCHING REGULATOR
VIN
SENS
INH
DRIVE
SINK
IC603
+5V REG
DIS
RESET
VO1
VO2
+5V STBY
+5V
PS603
8V-RECT Q608
RESET
+8V
SERVICE CONNECTOR
J201

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms. kΩ = 1000Ω , MΩ = 1000KΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm
Rating electrical power ¼ W

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⊥ : earth - ground.
- : earth - chassis.
- : no mounted.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part number specified.

Note : Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ⨯	ADJUSTABLE RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- Readings are taken with a colour-bar signal input.
- Readings are taken with 10MΩ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- ——— : B+ bus.
- : signal path. (RF)

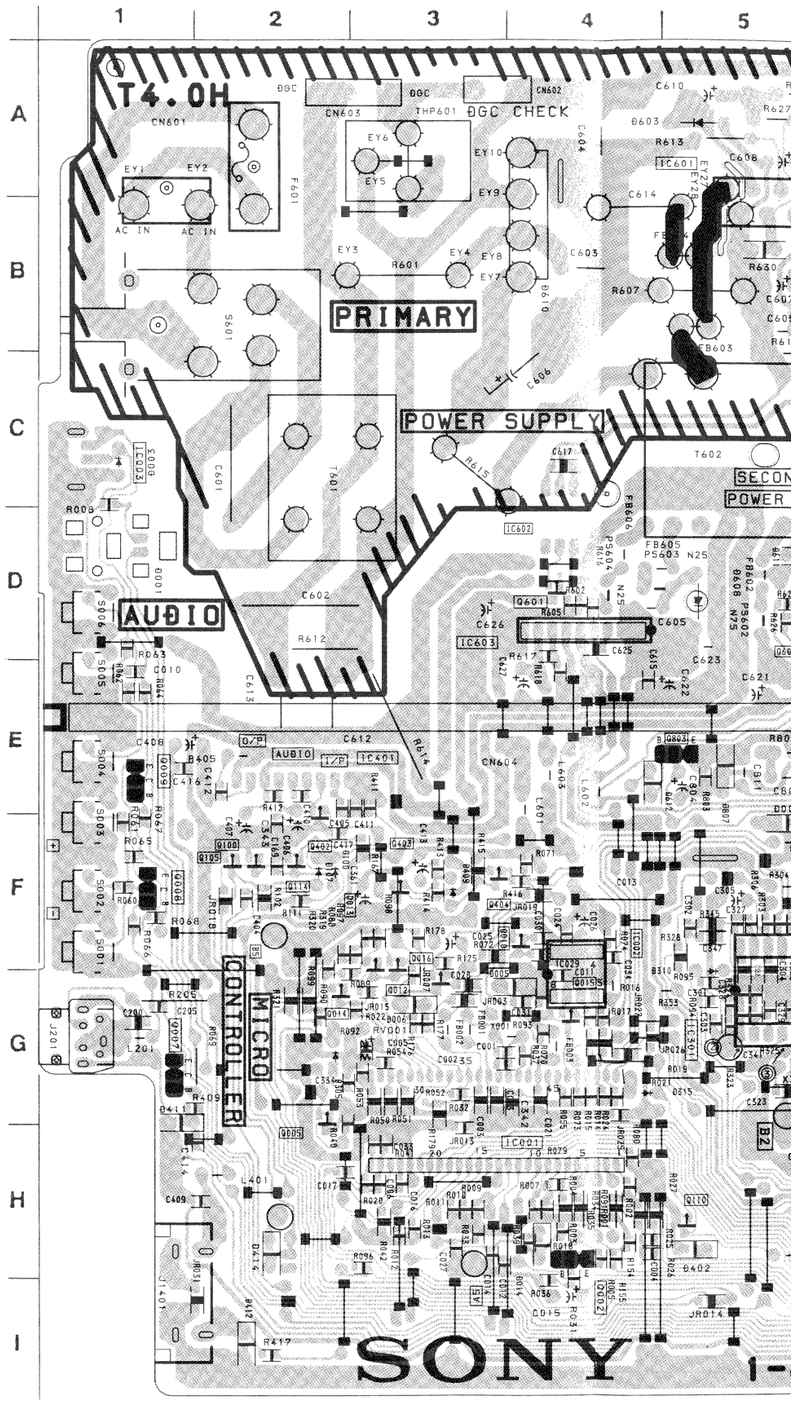
— A BOARD —

IC		TRANSISTOR				DIODE				VARIABLE RESISTOR	
IC001	H-4	Q001	H-8	Q114	F-2	D001	D-1	D305	G-2	○ RV102	H-10
IC002	G-4	Q002	I-4	○ Q115	F-10	D002	F-8	○ D307	G-11		
IC003	C-1	Q005	H-2	○ Q116	F-9	D004	F-5	○ D308	F-8		
IC101	G-10	Q006	H-9	Q300	F-7	D005	G-4	D310	G-5		
IC301	G-5	Q007	G-1	Q301	F-6	D006	G-3	D311	G-8		
IC302	H-7	Q008	F-1	Q302	F-7	D014	I-4	D312	G-7		
IC401	E-3	Q009	E-1	Q303	G-7	D100	F-3	D313	G-8		
IC501	D-9	Q010	F-4	Q304	F-7	○ D102	G-11	D401	H-12		
IC601	A-5	Q011	H-8	Q305	G-7	○ D104	G-11	D402	H-5		
IC603	D-3	Q012	G-3	Q306	G-8	● D105	F-8	D403	H-12		
		Q013	F-3	○ Q307	F-8	● D106	F-8	D404	H-12		
		Q014	G-2	Q401	H-10	D107	F-2	D405	H-12		
		Q015	G-4	Q402	F-2	D109	F-9	D406	H-11		
		Q016	F-3	Q403	F-3	D301	F-6	D407	G-12		
		Q100	F-2	Q404	F-4	D302	F-7	D408	I-12		
		○ Q101	G-11	Q500	D-11			D409	F-3		
		○ Q102	G-11	Q501	D-11			D410	I-11		
		○ Q103	G-11	Q600	D-6			D501	C-8		
		Q105	F-2	Q602	D-6			D600	D-6		
		Q107	H-9	Q801	E-6			D601	A-6		
		○ Q109	G-10	Q802	C-9			D602	B-6		
		Q110	H-5	Q803	E-5			D603	A-5		
		● Q111	G-8					D604	B-6		
		Q112	G-12					D605	B-6		
		● Q113	G-9					D606	D-6		
								D607	E-6		
								D608	D-5		
								D610	B-4		
								D611	D-6		
								D802	A-8		
								D804	B-8		
								D806	A-11		
								D807	E-5		

○ Mark : KV-16WT1 ONLY
● Mark : KV- 16WT1K/16WT1R ONLY

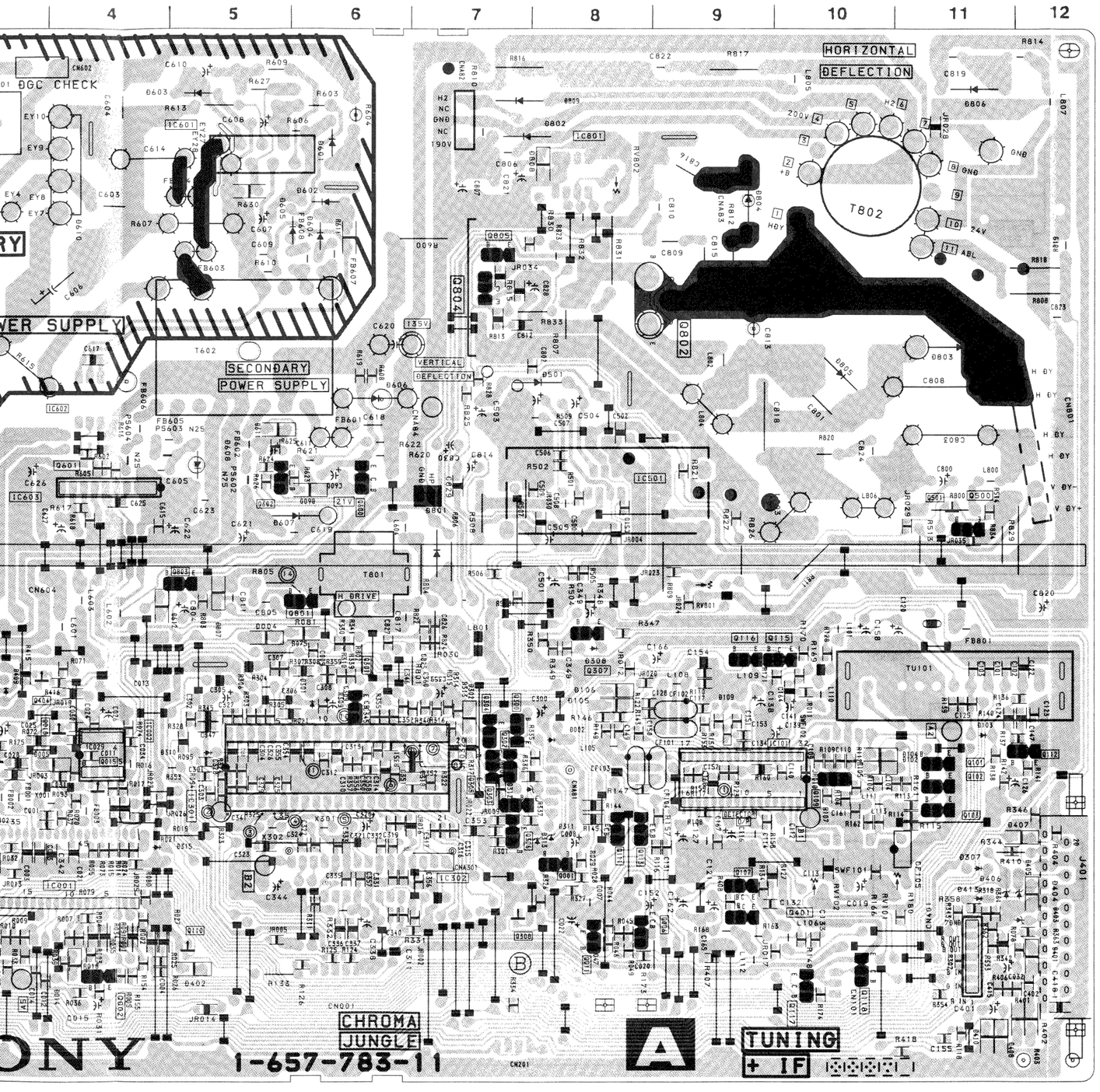
A SYSTEM CONTROL, HORIZONTAL OUTPUT, VERTICAL OUTPUT, CHROMINANCE, POWER, AUDIO

— A BOARD —



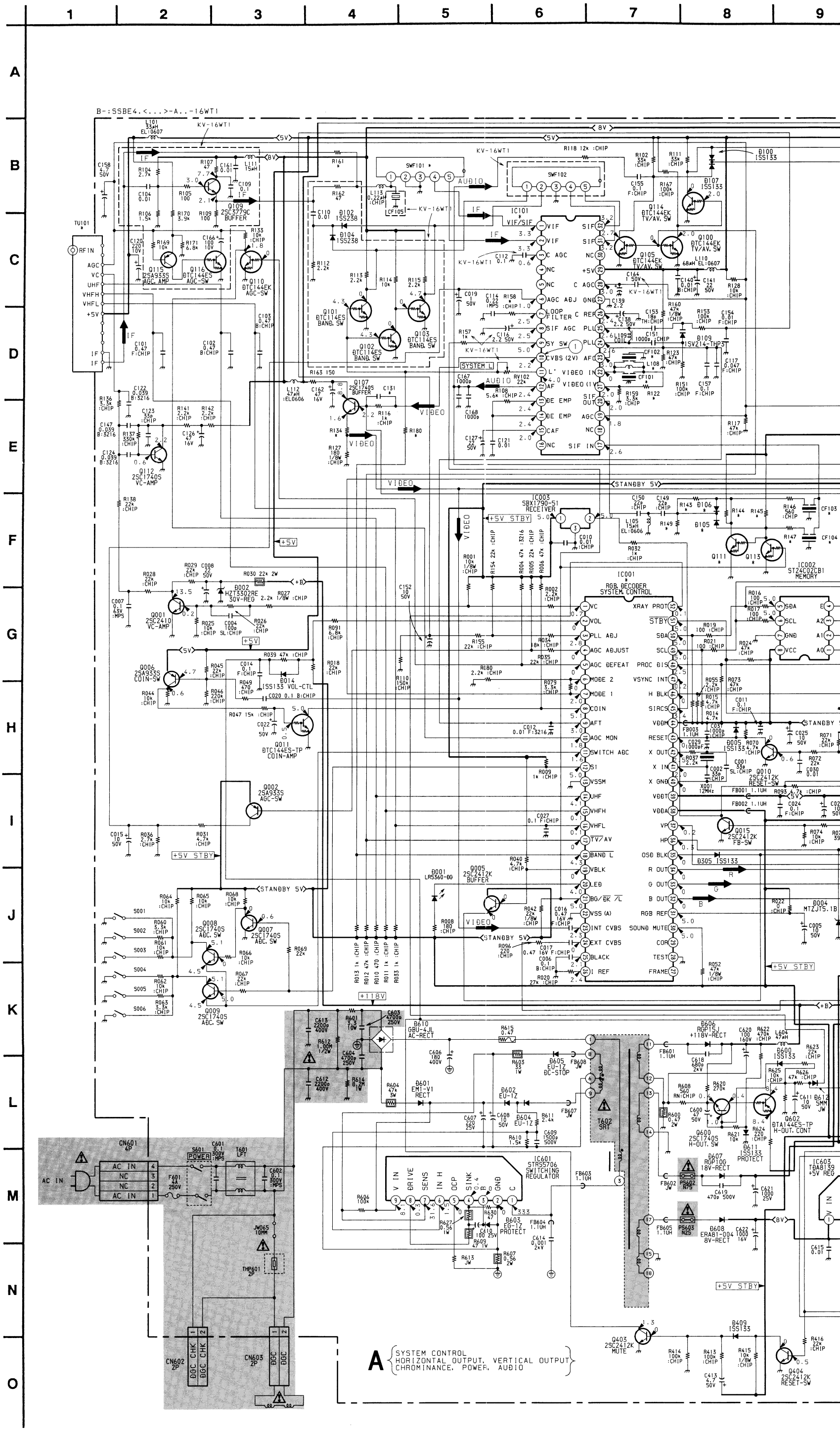
TPUT,

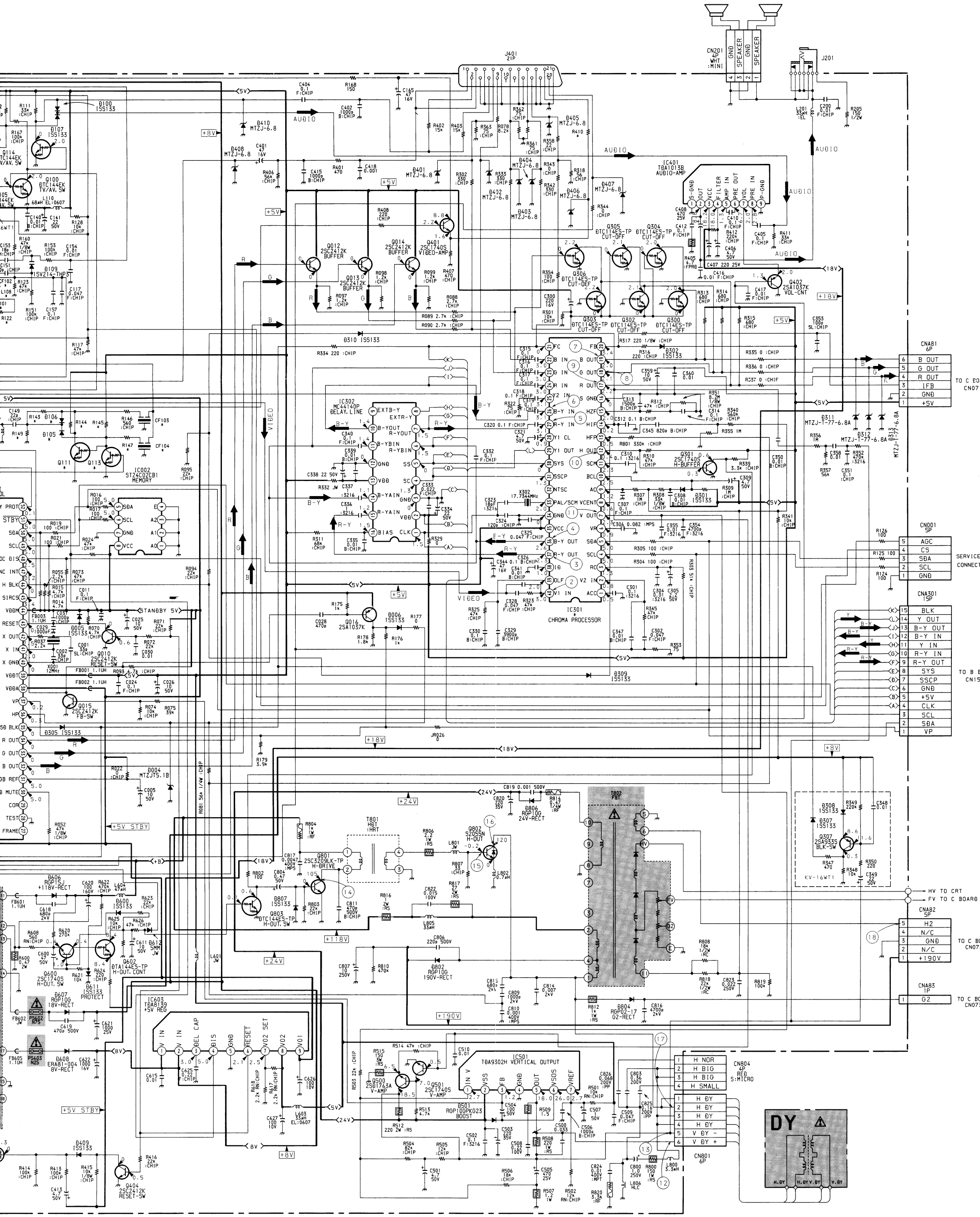
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

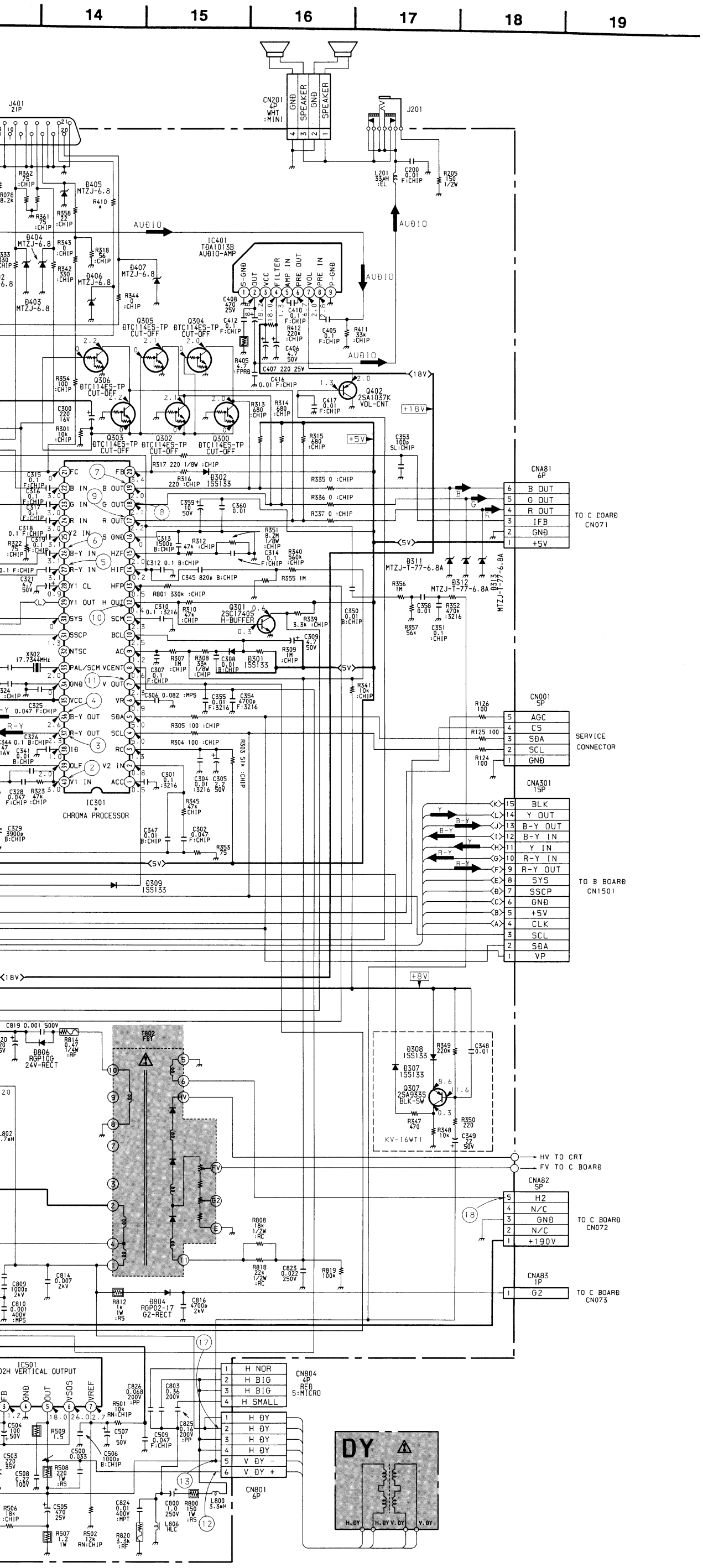


A BOARD * MARK

Model / Ref. No.	16WT1	16WT1A	16WT1K	16WT1R	16WT1U
C131	–	–	0.001	0.001	–
CF101	5.5 / 6.5 MHz	5.5 / 5.74 MHz	5.5 / 5.74 MHz	5.5 / 5.74 MHz	6.0 / 6.5 MHz
CF102	–	–	6.5 MHz	6.5 MHz	–
CF103	5.5 MHz	5.5 MHz	5.5 MHz	5.5 MHz	6.0 MHz
CF104	–	–	6.5 MHz	6.5 MHz	–
D105	–	–	1SS133	1SS133	–
D106	–	–	1SS133	1SS133	–
IC101	TDA9812	TDA9806	TDA9806	TDA9806	TDA9806
IC301	MC44002P	MC44007P	MC44002P	MC44002P	MC44007P
L108	8.2 UH	8.2 UH	4.7 UH	4.7 UH	8.2 UH
Q111	–	–	DTC144ES	DTC144ES	–
Q113	–	–	DTC144ES	DTC144ES	–
R122	150	150	100	100	150
R134	180	180	180	180	150
R143	0	0	–	–	0
R144	–	–	2.2 K	2.2 K	–
R145	–	–	2.2 K	2.2 K	–
R147	–	–	560	560	–
R149	–	–	2.2 K	2.2 K	–
R158	180	390	390	390	390
R161	–	0	0	0	0
R180	1K	–	–	–	–
R410	75	75	75	75	68
SWF101	OFWK3953	OPWG1963	OFWK2950	OFWK2950	OFWJ1952M
TU101	BT-AC401	BT-AC401	BT-AC401	BT-AC401	BT-AU601


B-:SSBE4.<...>-A..-16WT1
KV-16WT1
IC101 VIF/SIF
IC001 RGB, DECODER SYSTEM CONTROL
IC003 SBX1790-51 RECEIVER
IC002 ST24C02CB1 MEMORY
IC601 STR55706 SWITCHING REGULATOR
IC603 TDA8139 +5V REG
Q001 2SC2410 VC-AMP
Q002 2SA933S AGC-SW
Q005 2SC2412K BUFFER
Q006 2SA933S COIN-SW
Q007 2SC1740S ADC, SW
Q008 2SC1740S ADC, SW
Q009 2SC1740S ADC, SW
Q010 2SC2412K RESET-SW
Q011 DTC144ES-TP COIN-AMP
Q015 2SC2412K FB-SW
Q100 DTC144EK TV/AV, SW
Q101 DTC114ES BAND, SW
Q102 DTC114ES BAND, SW
Q103 DTC114ES BAND, SW
Q105 DTC144EK TV/AV, SW
Q109 2SC3779C BUFFER
Q110 DTC144EK AGC-SW
Q111
Q112 2SC1740S VC-AMP
Q113
Q114 DTC144EK TV/AV, SW
Q115 2SA933S AGC, AMP
Q116 DTC144ES AGC-SW
Q403 2SC2412K MUTE
Q404 2SC2412K RESET-SW
Q600 2SC1740S H-OUT, SW
Q602 DTA144ES-TP H-OUT, CONT
D001 LR5360-0G
D002 HZT3302RE 30V-REG
D004 MTZJT5.1B
D014 1SS133 VOL-CTL
D100 1SS133
D102 1SS238
D104 1SS238
D107 1SS133
D109 1SV214-THP3
D305 1SS133
D409 1SS133
D600 1SS133
D601 EM1-V1 RECT
D602 EU-1Z
D603 EG-1Z PROTECT
D604 EU-1Z
D605 EU-1Z DC-STOP
D606 RGP15J +118V-RECT
D607 RGP10G 18V-RECT
D608 ERA81-004 8V-RECT
D610 GBU-4JL AC-RECT
D611 1SS133 PROTECT
D612 5MM JW
TU101
SWF101 *
SWF102
CF105
CF101 *
CF102 *
CF103 *
CF104 *
L101 33uH EL:0607
L105 15uH EL:0606
L109 COIL
L110 68uH EL:0607
L111 15uH
L112 47uH :EL0606
L113 0.22uH :CHIP
L604 47mH
RF IN
AGC
VC
UHF
VHFH
VHFL
+5V
IF
VIDEO
AUDIO
+5V STBY
STANDBY 5V
+118V
+B
8V
5V
SYSTEM L
VIF
SIF
NC
C AGC
AGC ADJ
LOOP FILTER
SIF AGC
SY SW
CVBS (2V)
L' VIDEO IN
VIDEO (1V)
DE EMP
CAF
SIF OUT
SIF IN
PLL ADJ
AGC ADJUST
AGC DEFEAT
MODE 2
MODE 1
COIN
AFT
AGC MON
SWITCH ADC
SI
VSSM
BAND L
VBLK
LED
VSS (A)
INT CVBS
EXT CVBS
BLACK
I REF
XRAY PROT
STBY
SDA
SCL
PROC BIS
VSYNC INT
H BLK
SIRCS
VDDM
RESET
X OUT
X IN
X GND
VDDT
VDDA
VP
HP
OSD BLK
R OUT
G OUT
B OUT
RGB REF
SOUND MUTE
COR
TEST
FRAME
SCL
GND
VCC
A0
A1
A2
AC IN
NC
POWER
F601 4A 250V
S601
T601 LFT
T602 SRT
CN601 4P
CN602 2P
CN603 2P
DGC CHK
DGC
THP601 2P
JW065 10MM
S001
S002
S003
S004
S005
S006
A SYSTEM CONTROL
HORIZONTAL OUTPUT, VERTICAL OUTPUT
CHROMINANCE, POWER, AUDIO

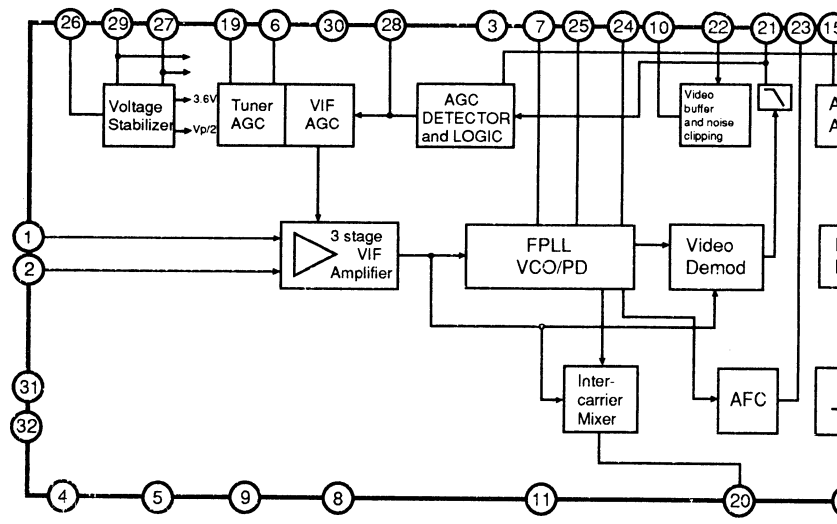

J401 21P
CN201 4P WHT :MINI
GND SPEAKER GND SPEAKER
J201
L201 33μH :EL
C200 0.01 F:CHIP
R205 150 1/2W
AUDIO
IC401 TDA1013B AUDIO-AMP
S-GND OUT VCC FILTER AMP IN PRE OUT VOL PRE IN P-GND
C408 470 25V
C410 0.1 F:CHIP
C412 0.1 F:CHIP
R412 220k :CHIP
C406 4.7 50V
C405 0.1 F:CHIP
R411 33k :CHIP
C407 220 25V
R405 4.7 :FPRB
C416 0.01 F:CHIP
C417 0.01 F:CHIP
R313 680 :CHIP
R314 680 :CHIP
R315 680 :CHIP
C353 100p SL:CHIP
+18V
+8V
+5V
+5V STBY
D100 1SS133
D107 1SS133
Q114 TC144EK TV/AV. SW
Q100 DTC144EK TV/AV. SW
L110 68μH EL:0607
C140 0.01 B:CHIP
C141 22 50V
R128 10k :CHIP
R160 47k 1/8W :CHIP
R153 100k :CHIP
C154 0.01 F:CHIP
D109 1SV214-THP3
C117 0.047 F:CHIP
R123 47k :CHIP
R151 100k :CHIP
C157 0.1 F:CHIP
R117 47k :CHIP
D410 MTZJ-6.8
D408 MTZJ-6.8
C401 47 16V
C404 0.1 F:CHIP
C402 1000p B:CHIP
R168 150
C165 47 16V
C415 1000p B:CHIP
R401 470
C418 0.001
R406 56k :CHIP
D401 MTZJ-6.8
D402 MTZJ-6.8
D403 MTZJ-6.8
D404 MTZJ-6.8
D405 MTZJ-6.8
D406 MTZJ-6.8
D407 MTZJ-6.8
R362 75 :CHIP
R363 75 :CHIP
R078 8.2k
R361 75 :CHIP
R358 22 :CHIP
R402 15k
R403 15k
R410
R333 330 :CHIP
R343 0 :CHIP
R342 330 :CHIP
R318 56 :CHIP
R344 0 :CHIP
R302 330 :CHIP
R408 220 :CHIP
R401 470
Q012 2SC2412K BUFFER
Q013 2SC2412K BUFFER
Q014 2SC2412K BUFFER
Q401 2SC1740S VIDEO-AMP
R098 1.2k :CHIP
R099 1.2k :CHIP
R407 470 :CHIP
R097 1.2k :CHIP
R088 2.7k :CHIP
R089 2.7k :CHIP
R090 2.7k :CHIP
R554 100 :CHIP
Q306 DTC114ES-TP CUT-OFF
Q303 DTC114ES-TP CUT-OFF
Q302 DTC114ES-TP CUT-OFF
Q300 DTC114ES-TP CUT-OFF
Q305 DTC114ES-TP CUT-OFF
Q304 DTC114ES-TP CUT-OFF
C300 220 16V
R301 10k :CHIP
Q402 2SA1037K VOL-CNT
D310 1SS133
R334 220 :CHIP
R316 220 :CHIP
D302 1SS133
R317 220 1/8W :CHIP
C315 0.1 F:CHIP
C316 0.1 F:CHIP
C317 0.1 F:CHIP
C318 0.1 F:CHIP
C319 0.1 F:CHIP
C320 0.1 F:CHIP
C321 4.7 50V
C359 10 50V
C360 0.01
R335 0 :CHIP
R336 0 :CHIP
R337 0 :CHIP
C313 1500p B:CHIP
R312 47k :CHIP
C314 0.1 F:CHIP
R340 560k :CHIP
C312 0.1 B:CHIP
C345 820p B:CHIP
R355 1M
R801 330k :CHIP
R351 8.2M 1/8W :CHIP
D311 MTZJ-T-77-6.8A
D312 MTZJ-T-77-6.8A
D313 MTZJ-T-77-6.8A
R356 1M
R357 56k
C358 0.01
C351 0.1 :CHIP
R352 470k :3216
C350 0.01 B:CHIP
IC302 MC44140P DELAY LINE
EXTB-Y EXTR-Y B-YOUT R-YOUT B-YBIN R-YBIN GND VDD B-YAIN R-YAIN BIAS
C340 0.1 F:CHIP
C339 0.01 B:CHIP
C338 22 50V
R332 JW
C337 :3216
C336 :3216
R311 68k :CHIP
C335 0.01 B:CHIP
C332 0.1 F:CHIP
C333 0.022 F:CHIP
C334 22 50V
R329 0
X302 17.7344MHz
C323 18pF :3216
C324 120p :CHIP
C325 0.047 F:CHIP
C326 B:CHIP
C344 0.1 47 16V
C341 0.01 B:CHIP
R175 1k
C028 470p
Q016 2SA1037K
D006 1SS133
R177 0
R178 1.8k
R176 1k
IC301 * CHROMA PROCESSOR
SCL SDA SYNC H.OUT V.OUT R.OUT G.OUT B.OUT VCC V.IN H.IN GND
C307 0.1 F:CHIP
R307 1M :CHIP
R308 33k 1/8W :CHIP
C308 0.01 B:CHIP
D301 1SS133
C306 0.082 :MPS
C355 0.01 F:3216
C354 4700p F:3216
R309 1M :CHIP
C309 4.7 50V
R339 3.3k :CHIP
Q301 2SC17405 H-BUFFER
C310 0.1 :3216
R310 47k :CHIP
R341 10k :CHIP
R305 100 :CHIP
R304 100 :CHIP
R303 51k :CHIP
C301 0.1 :3216
C304 0.01 :3216
C305 2.2 50V
R345 47k :CHIP
C347 0.01 B:CHIP
C302 0.047 F:CHIP
R353 75
C328 0.047 F:CHIP :CHIP
R323 47k :CHIP
C330 0.1 B:CHIP
C329 3900p B:CHIP
R325 47k :CHIP
D309 1SS133
JR026 0
R179 3.9k
R334 220 :CHIP
VIDEO
B-Y
R-Y
R
G
B
CNA81 6P
B OUT
G OUT
R OUT
IFB
GND
+5V
TO C BOARD CN07
CN001 5P
AGC
CS
SDA
SCL
GND
SERVICE CONNECT
CNA301 15P
BLK
Y OUT
B-Y OUT
B-Y IN
Y IN
R-Y IN
R-Y OUT
SYS
SSCP
GND
+5V
CLK
SCL
SDA
VP
TO B BOARD CN15
IC002 ST24C02CB1 MEMORY
R095 22k :CHIP
R016 100 :CHIP
R017 100 :CHIP
SDA SCL GND VCC A2 A1 A0
R019 100 :CHIP
R021 100 :CHIP
R024 47k :CHIP
R055 2.2k :CHIP
R073 47k :CHIP
R094 22k :CHIP
R015 4.7k :CHIP
R014 4.7k
C011 0.1 F:CHIP
STBY
SDA
SCL
DC DIS
INC INT
H BLK
SIRCS
VDDM
RESET
X OUT
X IN
X GND
VDDT
VDDA
VP
HP
SD BLK
R OUT
G OUT
B OUT
GB REF
D MUTE
COR
TEST
FRAME
FB003 1.1UH
C037 1000p :CHIP
C029 1000pF
R037 2.2k
C002 33p :CHIP
C001 33p SL:CHIP
X001 12MHz
FB001 1.1UH
FB002 1.1UH
R093 4.7k :CHIP
C024 0.1 F:CHIP
C026 10 50V
Q015 2SC2412K FB-SW
R074 10k :CHIP
R075 39k
D305 1SS133
D004 MTZJT5.1B
C005 10 50V
R022 0 :CHIP
R081 56k 1/4W :CHIP
D005 1SS133
R070 4.7k :CHIP
R071 22k :CHIP
R072 22k
C030 0.01
Q010 2SC2412K RESET-SW
STANDBY 5V
C025 10 50V
R052 47k 1/8W :CHIP
+5V STBY
+B
D606 RGP15J +118V-RECT
C620 100 160V
R622 470k :CHIP
L604 47μH
FB601 1.1UH
C618 680p 2kV
R623 22k :CHIP
D400 1SS133
R625 10k :CHIP
R626 47k :CHIP
D612 5MM JW
C611 10 50V
R608 560 RN:CHIP
R620 270k
C600 47 50V 2W
R621 10k
R624 220 :CHIP
Q602 DTA144ES-TP H-OUT, CONT
Q600 2SC1740S H-OUT, SW
D611 1SS133 PROTECT
L601 JW
D607 RGP10G 18V-RECT
FB602 JW
PS602 N25
C619 470p 500V
C621 1000 25V
IC603 TDA8139 +5V REG
V IN V IN DEL CAP GIS GND RESET VO2 SET VO2 VO1
C615 0.01
C625 0.22 F:CHIP
R418 2.2k RN:CHIP
R417 2.2k RN:CHIP
C627 100 10V
L603 33μH EL:0607
C626 100 10V
FB605 1.1UH
D608 ERA81-004 8V-RECT
PS603 N25
C622 1000 16V
D409 1SS133
R414 100k :CHIP
R413 100k :CHIP
R415 10k 1/8W :CHIP
C413 4.7 50V
R416 22k :CHIP
Q404 2SC2412K RESET-SW
+24V
C819 0.001 500V
C820 220 35V
D806 RGP10G 24V-RECT
T802 FBT
T801 HOT :HRT
R804 1k 1W :RF
Q801 2SC3209LK-TP H-DRIVE
R806 2.2 1W :RS
Q802 S2055N H-OUT
L801 JW
R807 33 :CHIP
L802 0.7μH
C817 0.0047 400V :MPS
R802 100
C804 0.47 50V
D807 1SS133
R803 22k :CHIP
C811 470p 500V B:CHIP
Q803 DTC144ES-TP H-OUT, SW
R816 2W :RS
C822 0.015 100V
L805 33μH
C806 220p 500V
D802 RGP10G 190V-RECT
C807 10 250V
R810 470k
C813 680p 2kV
C809 1000p 2kV
C810 0.001 400V :MPS
C814 0.007 2kV
R812 1k 1W :RS
D804 RGP02-17 G2-RECT
C816 4700p 2kV
R808 18k 1/2W :RC
C823 0.022 250V
R819 100k
+118V
+190V
D308 1SS133
R349 220k
C348 0.01
D307 1SS133
Q307 2SA9535 BLK-SW
R347 470
R348 10k
R350 220
C349 22 50V
KV-16WT1
HV TO CRT
FV TO C BOARD
CNA82 5P
H2
N/C
GND
N/C
+190V
CNA83 1P
G2
TO C BOARD CN073
IC501 TDA9302H VERTICAL OUTPUT
IN V VSS FB GND OUT VSOS VREF
R514 47k :CHIP
R515 150 5W :RS
Q500 2SB1763A V-AMP
Q501 2SC1740S V-AMP
R503 22k :CHIP
C510 0.01
R513 4.7k
R512 220 2W :RS
D501 RGP10GPKG23 BOOST
C504 100 50V
R509 1.5
C503 220 35V
C500 0.033
C506 1000p B:CHIP
C507 1 50V
C509 0.047 F:CHIP
C826 0.068 200V :PP
C803 0.36 200V
C825 0.16 200V :PP
R501 10k :CHIP
R502 12k RN:CHIP
R505 12k :CHIP
R504 82k :CHIP
C502 0.1 F:3216
C508 0.22 100V
R508 220 1W :RS
C501 4.7 50V
R506 18k :CHIP
C505 470 25V
R507 1.2 1W
C824 0.01 400V :MPT
R820 3.3k :RF
C800 1.0 250V
R800 150 1W :RS
L800 3.3mH
L806 HLC
CN804 4P RED S-MICRO
H NOR
H BIG
H BIG
H SMALL
CN801 6P
H ΦY
H ΦY
H ΦY
H ΦY
V ΦY -
V ΦY +
DY
H.ΦY
H.ΦY V.ΦY
V.ΦY



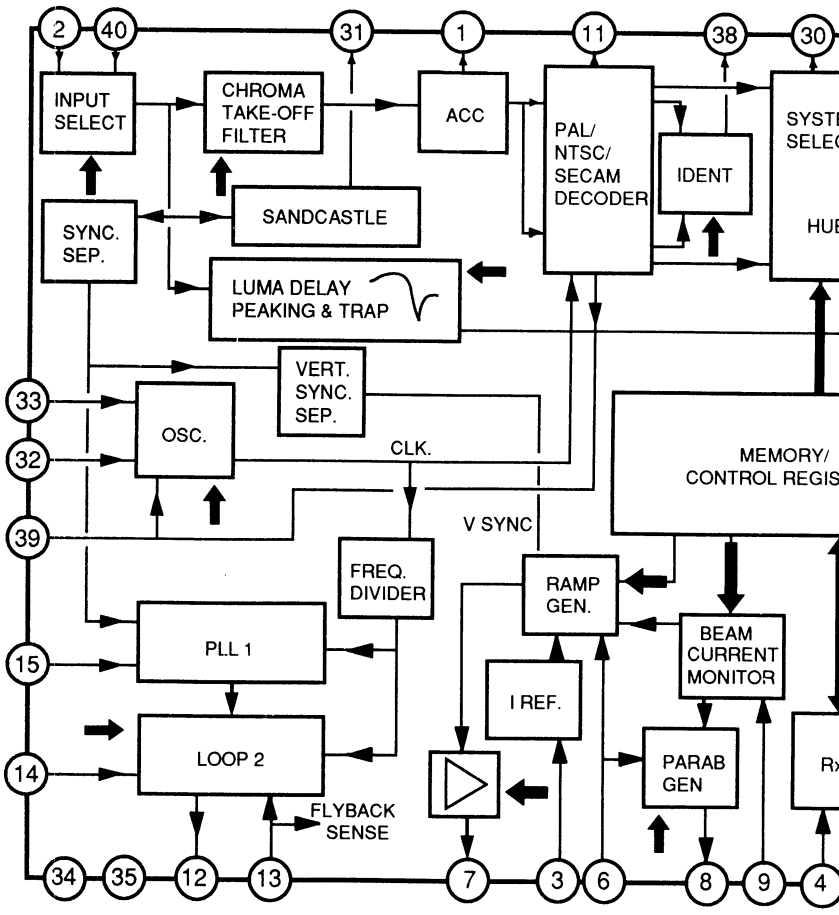
WAVEFORMS A BOARD

① 2.0 Vp-p (H)	② 1.0 Vp-p (H)	③ 1.0 Vp-p (H)
⑤ PAL 1.0 Vp-p (H)	⑤ SECAM 0.5 Vp-p (H)	⑤ NTSC 1.1 Vp-p (H)
⑥ NTSC 1.5 Vp-p (H)	⑦ 1.0 Vp-p (H)	⑧ 1.4 Vp-p (H)
⑪ 1.8 Vp-p (V)	⑫ 55 Vp-p (V)	⑬ 7.3 Vp-p (V)
⑯ 1.4KVp-p (H)	⑰ 51 Vp-p (H)	⑱ 24 Vp-p (H)

A BOARD IC101 TDA9806/TDA9812



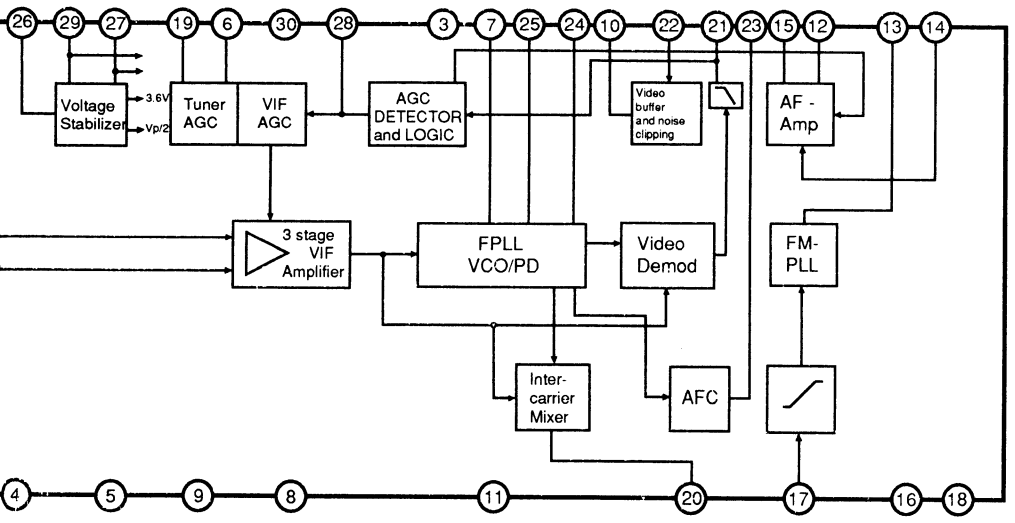
A BOARD IC301 MC44002P/MC44007P



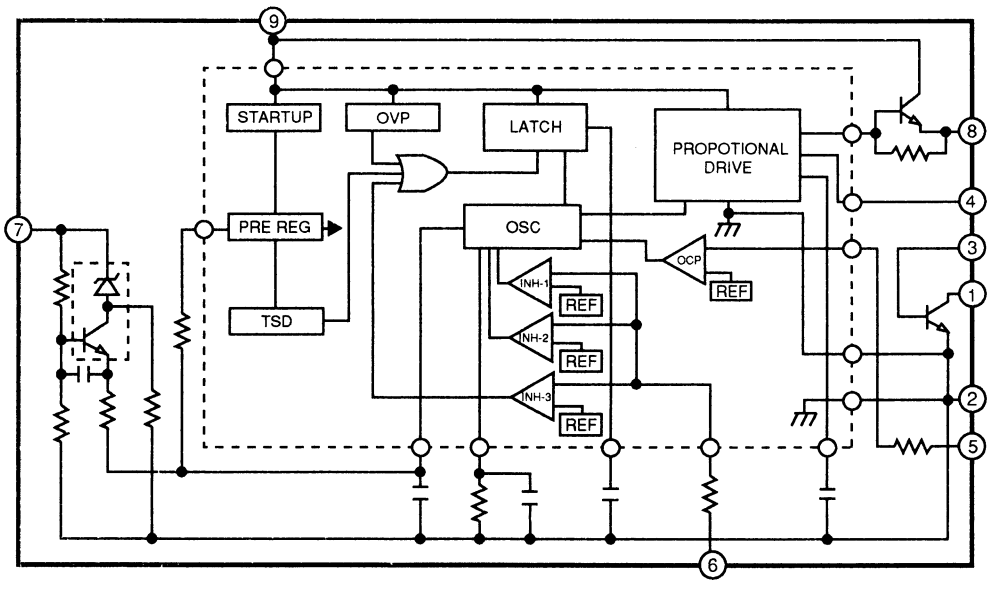
WAVEFORMS A BOARD

① 2.0 Vp-p (H)	② 1.0 Vp-p (H)	③ 1.0 Vp-p (H)	④ PAL 1.0 Vp-p (H)	④ SECAM/NTSC 1.2 Vp-p (H)
⑤ PAL 1.0 Vp-p (H)	⑤ SECAM 0.5 Vp-p (H)	⑤ NTSC 1.1 Vp-p (H)	⑥ PAL 1.4 Vp-p (H)	⑥ SECAM 0.7 Vp-p (H)
⑥ NTSC 1.5 Vp-p (H)	⑦ 1.0 Vp-p (H)	⑧ 1.4 Vp-p (H)	⑨ 1.5 Vp-p (H)	⑩ 0.8 Vp-p (H)
⑪ 1.8 Vp-p (V)	⑫ 55 Vp-p (V)	⑬ 7.3 Vp-p (V)	⑭ 220 Vp-p (H)	⑮ 10 Vp-p (H)
⑯ 1.4KVp-p (H)	⑰ 51 Vp-p (H)	⑱ 24 Vp-p (H)		

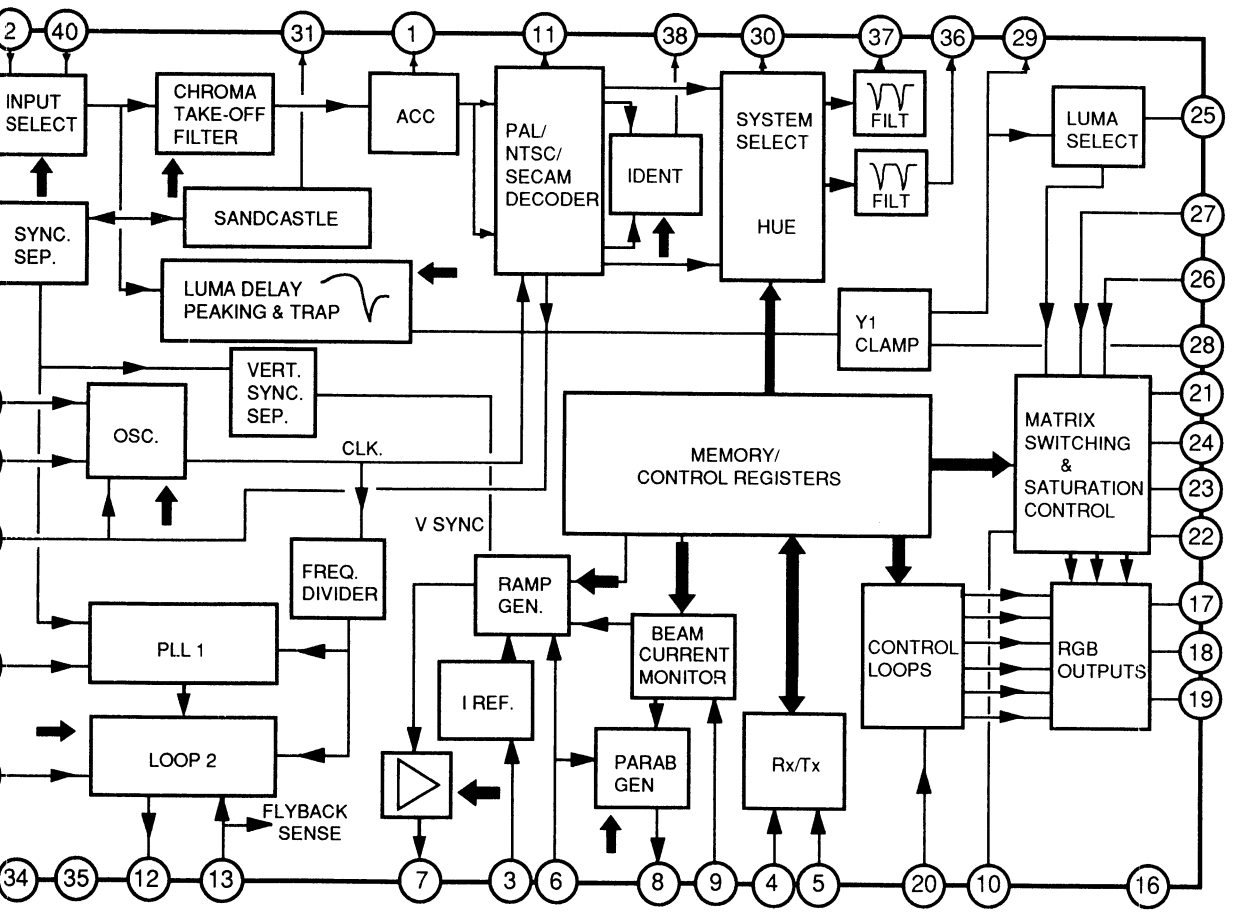
A BOARD IC101 TDA9806/TDA9812



A BOARD IC601 STRS5706

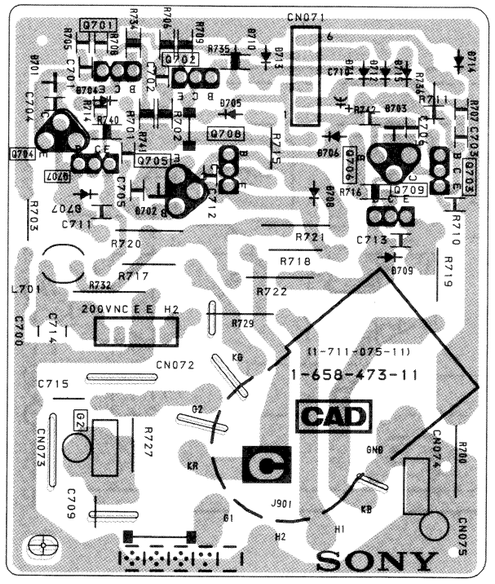


A BOARD IC301 MC44002P/MC44007P

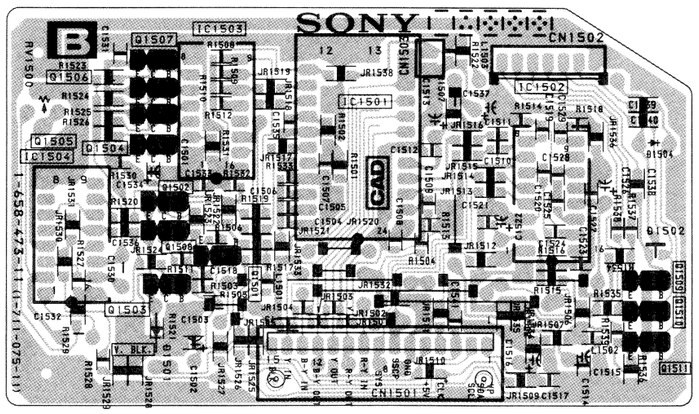


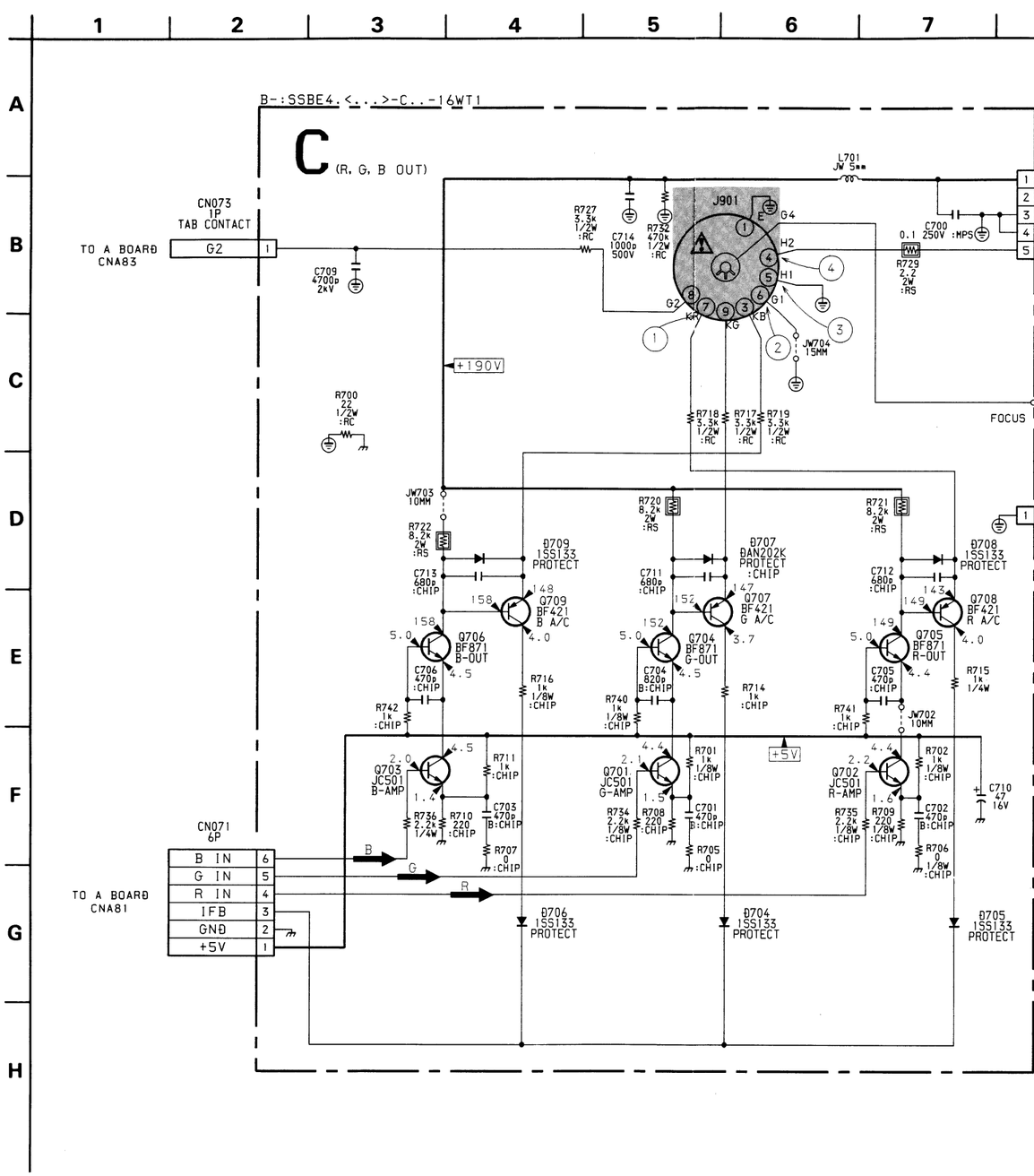
C [R.G.B OUT] **B** [VIDEO COMPRESSOR]

— C BOARD —

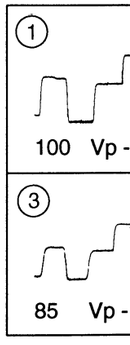


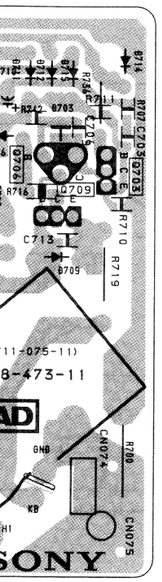
— B BOARD —

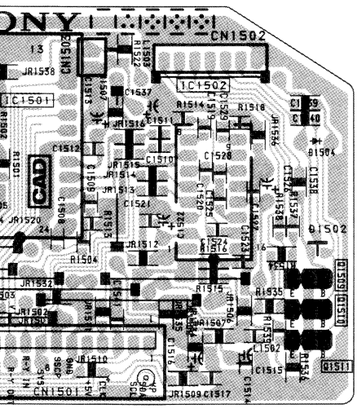




WAVEFORM







B-:SSBE4.<...>-C..-16WT1

C (R, G, B OUT)

CN073 1P TAB CONTACT
TO A BOARĐ CNA83
G2 1

CN072 5P
1 +190V
2 N/C
3 GNĐ
4 GNĐ
5 H2
TO A BOARĐ CNA82

L701 JW 5mm

J901
G4 H2 H1 G1 G2 KR KB KG

C709 470p 2kV
C714 1000p 500V
R727 3.3k 1/2W :RC
R732 470k 1/2W :RC
C700 0.1 250V :MPS
R729 2.2 2W :RS
JW704 15MM

+190V

R700 22 1/2W :RC
R718 5.3k 1/2W :RC
R717 5.3k 1/2W :RC
R719 3.3k 1/2W :RC

FOCUS → TO A BOARĐ T802 FV

V901 W36LEZ070X PICTURE TUBE
KG KB G2
H
CV KR G1 G4 HV
HV

CN074 1P TAB CONTACT
1 E
TO A BOARĐ T802 HV

JW703 10MM
R722 8.2k 2W :RS
Đ709 1SS133 PROTECT
C713 680p :CHIP
Q709 BF421 B A/C
Q706 BF871 B-OUT
C706 470p :CHIP
R716 1k 1/8W :CHIP
R742 1k :CHIP

R720 8.2k 2W :RS
Đ707 DAN202K PROTECT :CHIP
C711 680p :CHIP
Q707 BF421 G A/C
Q704 BF871 G-OUT
C704 820p B:CHIP
R714 1k :CHIP
R740 1k 1/8W :CHIP

R721 8.2k 2W :RS
Đ708 1SS133 PROTECT
C712 680p :CHIP
Q708 BF421 R A/C
Q705 BF871 R-OUT
C705 470p :CHIP
R715 1k 1/4W
R741 1k :CHIP
JW702 10MM

+5V

Q703 JC501 B-AMP
R711 1k :CHIP
R736 2.2k 1/4W
R710 220 :CHIP
C703 470p B:CHIP
R707 0 :CHIP

Q701 JC501 G-AMP
R701 1k 1/8W :CHIP
R734 2.2k 1/8W :CHIP
R708 220 :CHIP
C701 470p B:CHIP
R705 0 :CHIP

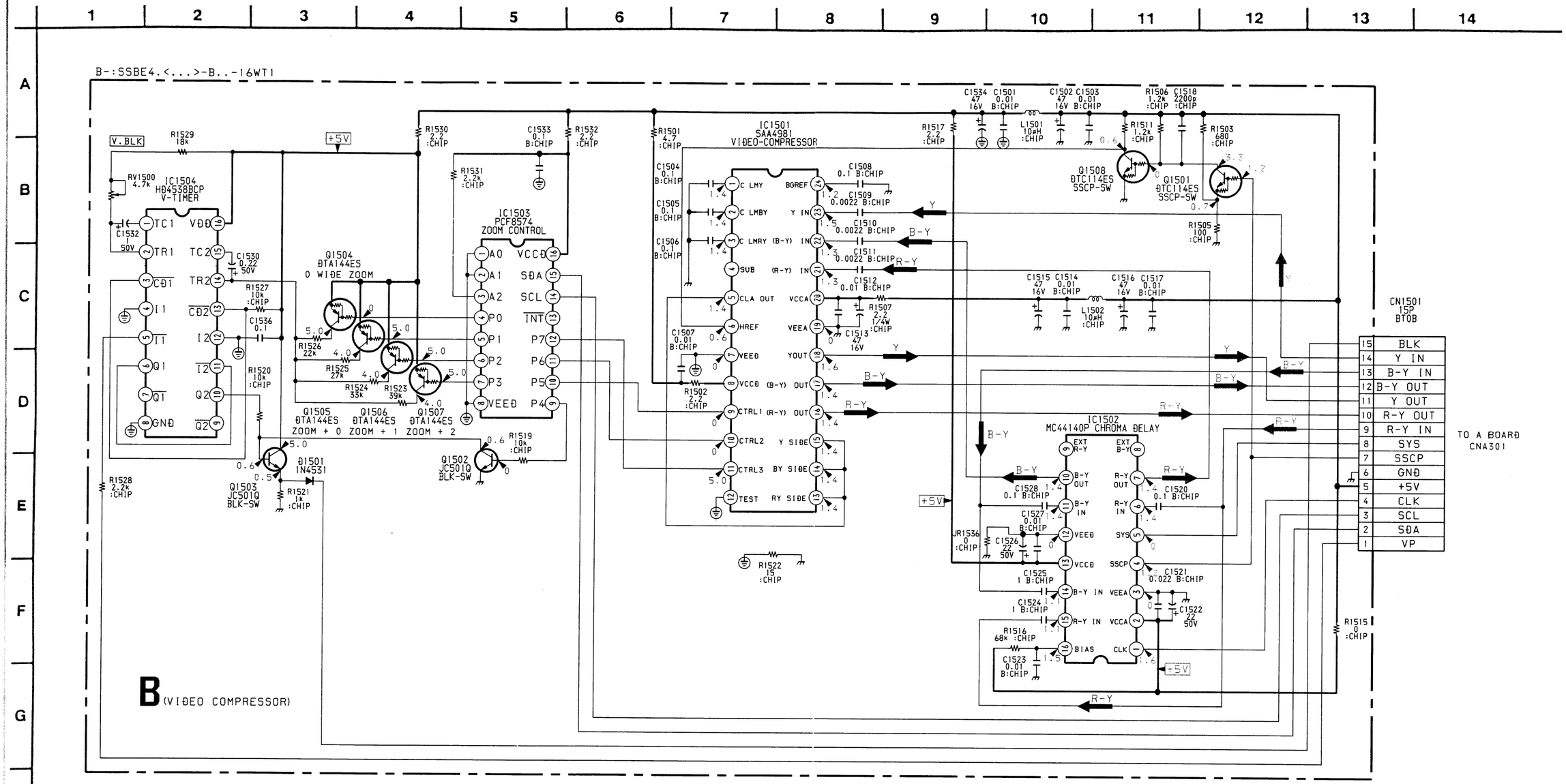
Q702 JC501 R-AMP
R702 1k 1/8W :CHIP
R735 2.2k 1/8W :CHIP
R709 220 1/8W :CHIP
C702 470p B:CHIP
R706 0 1/8W :CHIP
C710 47 16V

CN071 6P
B IN 6
G IN 5
R IN 4
IFB 3
GNĐ 2
+5V 1
TO A BOARĐ CNA81

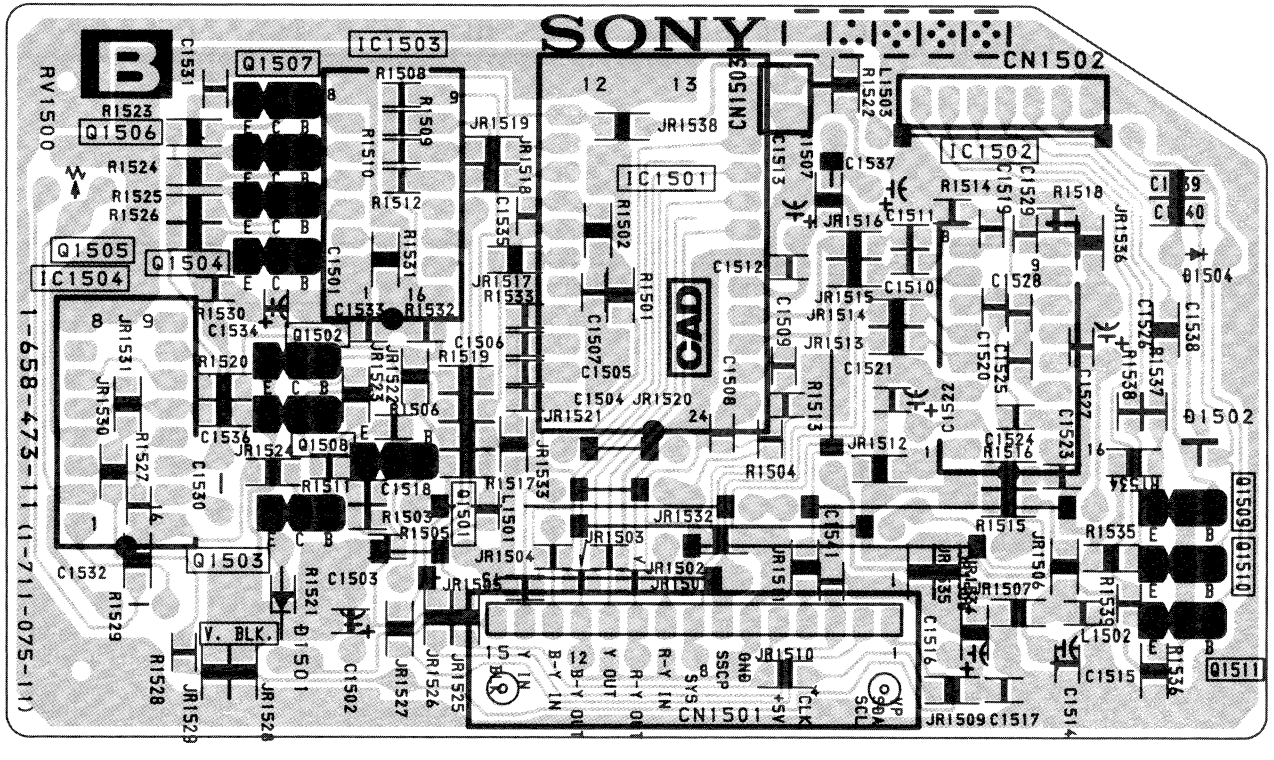
Đ706 1SS133 PROTECT
Đ704 1SS133 PROTECT
Đ705 1SS133 PROTECT

WAVEFORMS C BOARD

① 100 Vp-p (H)	② 96 Vp-p (H)
③ 85 Vp-p (H)	④ 23 Vp-p (H)

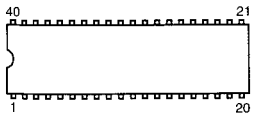

B-:SSBE4.<...>-B..-16WT1
V.BLK
+5V
R1529 18k
RV1500 4.7k
IC1504 H04538BCP V-TIMER
C1532 50V
C1530 0.22 50V
R1527 10k :CHIP
C1536 0.1
R1520 10k :CHIP
R1528 2.2k :CHIP
Q1503 JC501Q BLK-SW
Q1501 1N4531
R1521 1k :CHIP
R1530 2.2 :CHIP
C1533 0.1 B:CHIP
R1532 2.2 :CHIP
R1531 2.2k :CHIP
IC1503 PCF8574 ZOOM CONTROL
Q1504 DTA144ES 0 WIDE ZOOM
R1526 22k
R1525 27k
R1524 33k
R1523 39k
Q1505 DTA144ES ZOOM + 0
Q1506 DTA144ES ZOOM + 1
Q1507 DTA144ES ZOOM + 2
Q1502 JC501Q BLK-SW
R1519 10k :CHIP
R1522 15 :CHIP
R1501 4.7 :CHIP
IC1501 SAA4981 VIDEO-COMPRESSOR
C1504 0.1 B:CHIP
C1505 0.1 B:CHIP
C1506 0.1 B:CHIP
C1507 0.01 B:CHIP
R1502 2.2 :CHIP
C1508 0.1 B:CHIP
C1509 0.0022 B:CHIP
C1510 0.0022 B:CHIP
C1511 0.0022 B:CHIP
C1512 0.01 B:CHIP
R1507 2.2 1/4W :CHIP
C1513 47 16V
R1517 2.2 :CHIP
C1534 47 16V
C1501 0.01 B:CHIP
C1502 47 16V
C1503 0.01 B:CHIP
L1501 10uH :CHIP
R1506 1.2k :CHIP
C1518 2200p :CHIP
R1511 1.2k :CHIP
R1503 680 :CHIP
Q1508 DTC114ES SSCP-SW
Q1501 DTC114ES SSCP-SW
R1505 100 :CHIP
C1515 0.01 16V B:CHIP
C1514 0.01 16V B:CHIP
C1516 47 16V
C1517 0.01 B:CHIP
L1502 10uH :CHIP
IC1502 MC44140P CHROMA DELAY
C1528 0.1 B:CHIP
C1527 0.01 B:CHIP
C1526 22 50V
JR1536 0 :CHIP
C1525 1 B:CHIP
C1524 1 B:CHIP
R1516 68k :CHIP
C1523 0.01 B:CHIP
C1520 0.1 B:CHIP
C1521 0.022 B:CHIP
C1522 22 50V
R1515 0 :CHIP
CN1501 15P BTOB
15 BLK
14 Y IN
13 B-Y IN
12 B-Y OUT
11 Y OUT
10 R-Y OUT
9 R-Y IN
8 SYS
7 SSCP
6 GND
5 +5V
4 CLK
3 SCL
2 SDA
1 VP
TO A BOARD CNA301
B (VIDEO COMPRESSOR)

— B BOARD —


SONY
B
1-658-473-11 (1-711-075-11)
RV1500
C1531
Q1507
IC1503
R1508
R1509
JR1519
JR1518
R1523
Q1506
R1524
R1525
R1526
R1510
R1512
C1535
Q1505
Q1504
IC1504
C1501
JR1517
R1533
R1530
C1533
R1532
C1534
Q1502
JR1531
JR1522
JR1523
R1520
C1506
R1519
JR1530
C1536
JR1524
Q1508
C1530
R1527
C1532
R1529
Q1503
RT511
C1518
R1503
R1505
Q1501
L1501
JR1533
JR1504
JR1505
C1503
R1521
V. BLK.
D1501
C1502
R1528
JR1529
JR1528
JR1527
JR1526
JR1525
IC1501
CN1503
JR1538
R1502
R1501
C1507
C1505
CAD
C1504
JR1520
JR1521
C1508
C1512
R1504
JR1503
JR1532
JR1502
JR1501
JR1534
JR1535
JR1536
JR1537
JR1538
CN1501
Y IN
B-Y IN
Y OUT
B-Y OUT
R-Y IN
R-Y OUT
SYS
SSCP
GND
+5V
CLK
SCL
SDA
CN1502
L1503
R1522
C1513
C1507
C1537
IC1502
R1514
C1519
C1529
R1518
JR1516
C1511
C1510
C1528
JR1515
JR1514
JR1513
C1509
C1521
C1520
C1525
C1527
C1523
R1538
R1537
C1522
C1524
R1516
JR1512
R1515
JR1506
JR1507
C1516
C1517
JR1509
C1514
L1502
C1515
R1539
R1535
R1534
R1536
C1538
C1539
C1540
D1504
D1502
Q1509
Q1510
Q1511

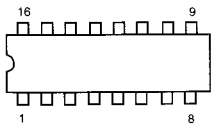
5-4. SEMICONDUCTORS

MC44002P
MC44007P



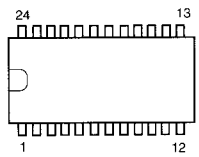
(TOP VIEW)

MC14538BCP
MC44140P
PCF8574



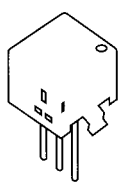
(TOP VIEW)

SAA4981T

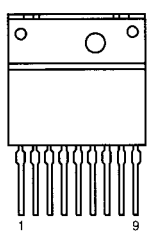


(TOP VIEW)

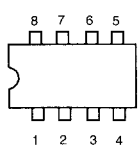
SBX1790-11
SBX1790-51



STR-S5706

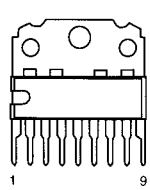


ST24C02CB1

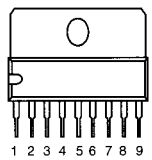


(TOP VIEW)

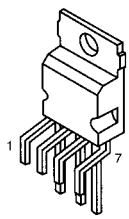
TDA1013B



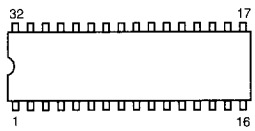
TDA8139



TDA9302H

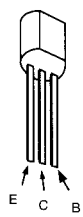


TDA9806
TDA9812

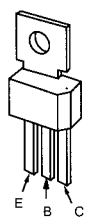


(TOP VIEW)

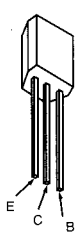
BF421
2SA1091-O



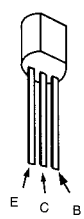
BF871



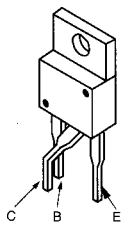
DTA144ES
DTC114ES
DTC144ES
2SC1740S



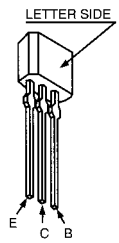
JC501-Q
2SC2785-HFE



S2055N-16E314A



2SA933AS
2SA993S
2SA1175-HFE
2SC2410SN



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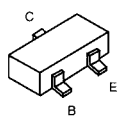
2SA1162-G
2SC2412K-QR



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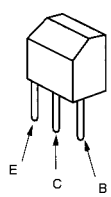

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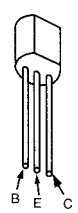

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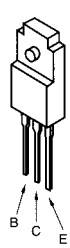

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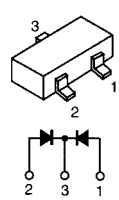
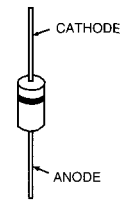


EG-1Z-V1 RGP02-17EL-6433
EGP20G RGP02-17PKG23
EL1Z RGP10GPKG23
EM1-V1 RGP15J-6040
EU-1Z 1N4531
1SS168
1SS238



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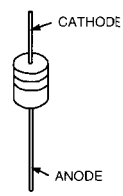
ERA83-006 RD6.8ESB2
MTZJ-5.1B 1SS133
MTZJ-6.8A



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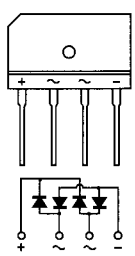

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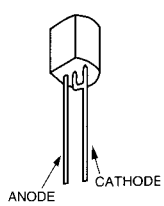
UPC574J



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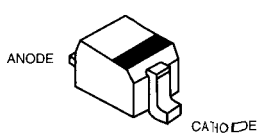

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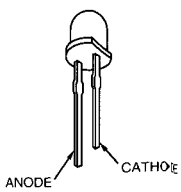


SECTION 6
EXPLODED VIEWS

NOTE :

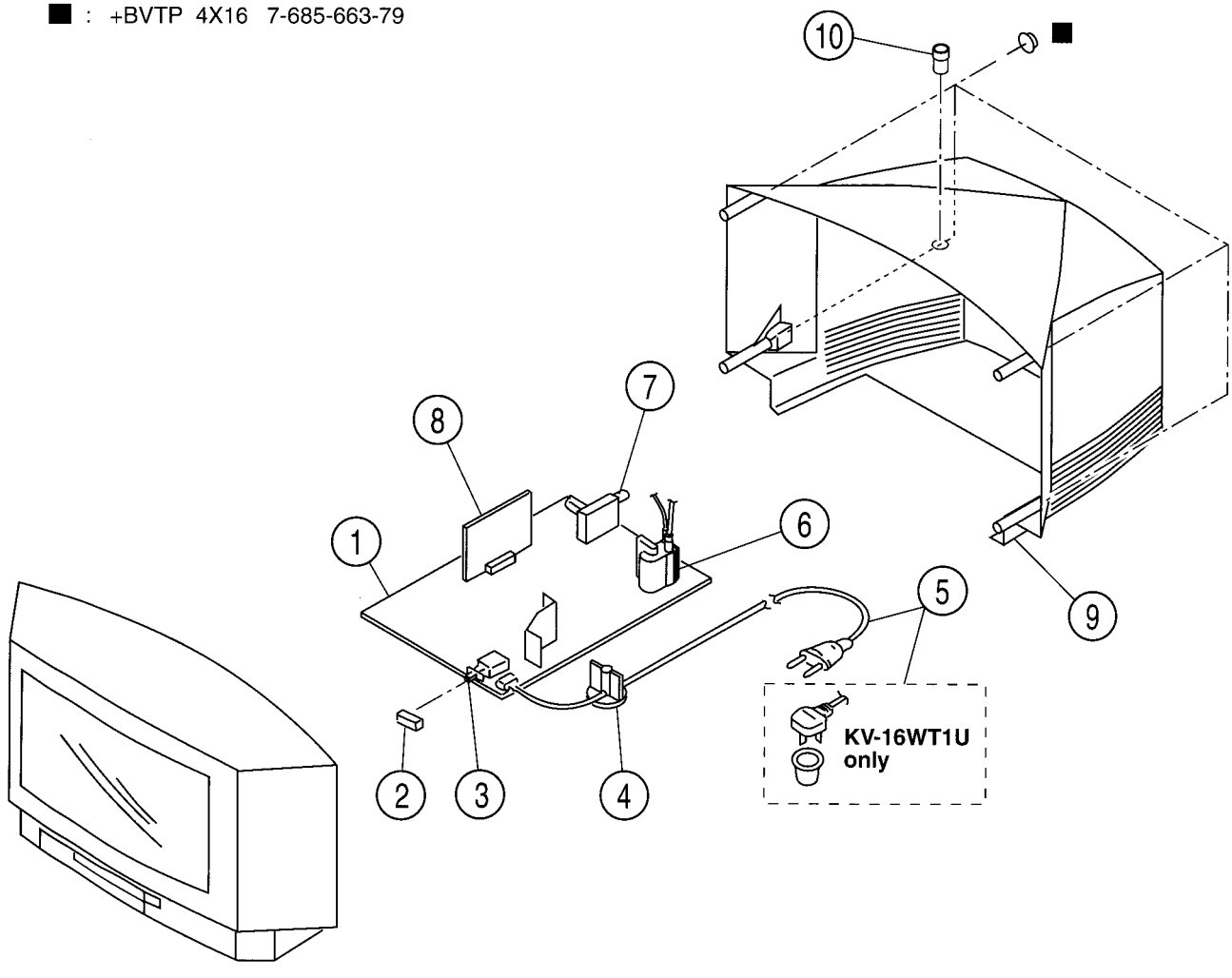
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

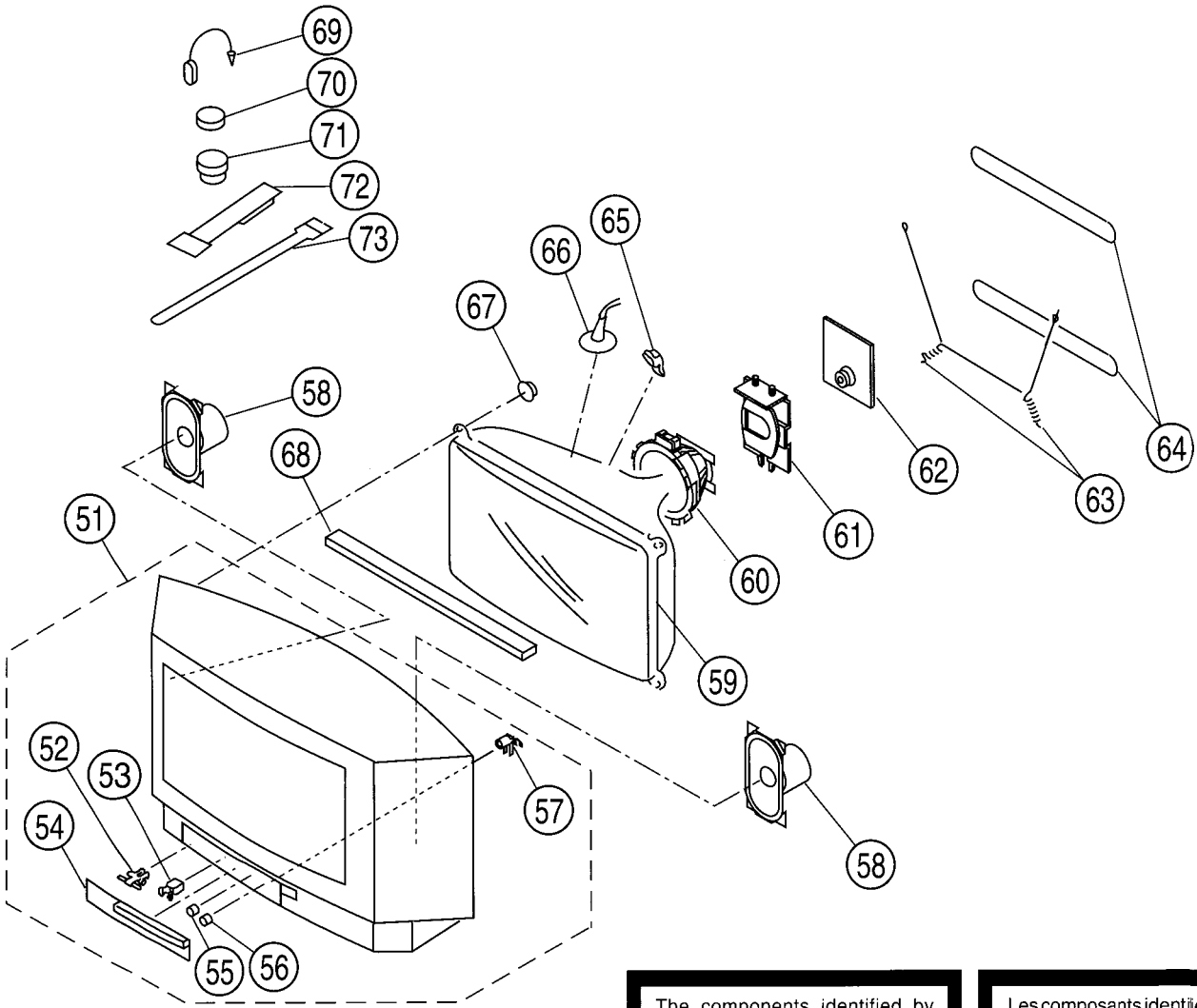
6-1. CHASSIS

■ : +BVTP 4X16 7-685-663-79



REF NO		PART NO	DESCRIPTION	REMARK
1		*A-1632-316-A	A BOARD, COMPLETE (KV-16WT1)	
		*A-1632-312-A	A BOARD, COMPLETE (KV-16WT1A)	
		*A-1632-317-A	A BOARD, COMPLETE (KV-16WT1K)	
		*A-1632-318-A	A BOARD, COMPLETE (KV-16WT1R)	
		*A-1632-319-A	A BOARD, COMPLETE (KV-16WT1U)	
2		4-203-092-01	BUTTON, POWER	
3	⚠	1-571-433-21	SWITCH, PUSH (AC POWER)	
4		*4-202-531-01	AC CORD LOCK (SC)	
5	⚠	1-690-270-11	CORD, POWER (WITH CONNECTOR) 2.5A/250V	(KV-16WT1/16WT1A/16WT1K/16WT1R)
	⚠	1-590-762-11	CORD, POWER (WITH PLUG) 2.5A/250V	(KV-16WT1U)
6	⚠	1-453-191-11	TRANSFORMER ASSY, FLYBACK (NX-1740/U2A)	
7		8-598-331-00	TUNER (BT-AC401)	(KV-16WT1/16WT1A/16WT1K/16WT1R)
		8-598-333-00	TUNER (BT-AU601)	(KV-16WT1U)
8		*A-1620-060-A	B BOARD, COMPLETE	
9		4-203-094-01	COVER, REAR	
10		4-203-090-01	TERMINAL, ANTENNA	

6-2. PICTURE TUBE



The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numeo specifie.

REF NO		PART NO	DESCRIPTION	REMARK
51		X-4200-228-1	BEZNET ASSY (KV-16WT1/16WT1K/16WT1R/16WT1U)	52 - 57
		X-4200-228-5	BEZNET ASSY (KV-16WT1A)	52 - 57
52		3-703-035-12	SHAFT, LID	
53		4-392-036-01	CATCHER, PUSH	
54		4-203-091-01	DOOR (KV-16WT1/16WT1K/16WT1R)	
		4-203-091-11	DOOR (KV-16WT1A/16WT1U)	
55		4-203-088-01	BUTTON, GAME	
56		4-203-093-01	BUTTON, MULTI	
57		4-203-089-01	GUIDE, LIGHT	
58		1-505-200-11	SPEAKER (5X11CM)	
59	⚠	8-737-803-05	PICTURE TUBE (SD-280) (W36LEZ070X)	
60	⚠	8-451-456-11	DEFLECTION YOKE (Y16GIAK)	
61	⚠	1-452-787-11	NECK ASSY, PICTURE TUBE (N-22)	
62		*A-1638-067-A	C BOARD, COMPLETE	
63		4-369-318-21	SPRING, TENSION	
64	⚠	1-411-510-11	COIL, DEGAUSSING	
65		3-704-495-01	SPACER, DY	
66	⚠	1-540-007-11	CAP ASSY, HIGH-VOLTAGE	
67		4-036-190-01	SCREW (5), TAPPING	
68		4-203-128-01	SHEET, BLOTTING	
69		4-308-870-00	CLIP, LEAD WIRE	
70		1-452-032-00	MAGNET, DISK; 10MM Ø	
71		1-452-094-00	MAGNET, ROTATABLE DISK; 15M Ø	
72		X-4309-608-0	PERMALLOY ASSY, CONVERGENC	
73		3-701-007-00	BAND, BINDING	

SECTION 7
ELECTRICAL PARTS LIST

When indicating parts by reference number, please include the board name.

CAPACITORS
MF : mF, PF : mmF

COILS
MMH : mH, μH : mH

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

B

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1620-060-A	B BOARD, COMPLETE **********			
		< CAPACITOR >			
C1501	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C1502	1-104-664-11	ELECT 47MF	20%	16V	
C1503	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C1504	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C1505	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C1506	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C1507	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C1508	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C1509	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	
C1510	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	
C1511	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	
C1512	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C1513	1-104-664-11	ELECT 47MF	20%	16V	
C1514	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C1515	1-104-664-11	ELECT 47MF	20%	16V	
C1516	1-104-664-11	ELECT 47MF	20%	16V	
C1517	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C1518	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	
C1520	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C1521	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V	
C1522	1-124-916-11	ELECT 22MF	20%	50V	
C1523	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C1524	1-164-346-11	CERAMIC CHIP 1MF		16V	
C1525	1-164-346-11	CERAMIC CHIP 1MF		16V	
C1526	1-124-916-11	ELECT 22MF	20%	50V	
C1527	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C1528	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C1530	1-124-464-11	ELECT 0.22MF	20%	50V	
C1532	1-124-903-11	ELECT 1MF	20%	50V	
C1533	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C1534	1-104-664-11	ELECT 47MF	20%	16V	
C1536	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
		< DIODE >			
D1501	8-719-052-85	DIODE 1N4531-AMMO			
		< IC >			
IC1501	8-759-342-13	IC SAA4981T-T			
IC1502	8-759-333-46	IC MC44140P			
IC1503	8-759-979-62	IC PCF8574			
IC1504	8-759-045-38	IC MC14538BCP			

REF.NO.	PART NO.	DESCRIPTION			REMARK
		< RESISTOR >			
JR1501	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR1502	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR1503	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR1504	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR1505	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR1506	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1507	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR1508	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR1509	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1510	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1511	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1512	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1513	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1514	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1515	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1516	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1517	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1518	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1519	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1520	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1521	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1522	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1523	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1524	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1525	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1526	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1527	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1528	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1529	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1530	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1531	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1532	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1533	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1534	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1535	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1536	1-216-296-91	METAL GLAZE	0	5%	1/8W
R1501	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R1502	1-216-298-00	METAL GLAZE	2.2	5%	1/10W
R1503	1-216-194-00	METAL GLAZE	680	5%	1/8W
R1505	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1506	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R1507	1-220-230-11	METAL GLAZE	2.2	10%	1/4W
R1511	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W

B A

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1515	1-216-296-91	METAL GLAZE	0	5% 1/8W	
R1516	1-216-242-91	METAL GLAZE	68K	5% 1/8W	
R1517	1-216-298-00	METAL GLAZE	2.2	5% 1/10W	
R1519	1-216-222-00	METAL GLAZE	10K	5% 1/8W	
R1520	1-216-222-00	METAL GLAZE	10K	5% 1/8W	
R1521	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R1522	1-216-005-00	METAL GLAZE	15	5% 1/10W	
R1523	1-216-236-11	METAL GLAZE	39K	5% 1/8W	
R1524	1-216-234-00	METAL GLAZE	33K	5% 1/8W	
R1525	1-216-232-00	METAL GLAZE	27K	5% 1/8W	
R1526	1-216-230-00	METAL GLAZE	22K	5% 1/8W	
R1527	1-216-073-00	METAL GLAZE	10K	5% 1/10W	
R1528	1-216-057-00	METAL GLAZE	2.2K	5% 1/10W	
R1529	1-216-228-00	METAL GLAZE	18K	5% 1/8W	
R1530	1-216-298-00	METAL GLAZE	2.2	5% 1/10W	
R1531	1-216-206-00	METAL GLAZE	2.2K	5% 1/8W	
R1532	1-216-298-00	METAL GLAZE	2.2	5% 1/10W	
		< COIL >			
L1501	1-412-006-31	INDUCTOR CHIP	10UH		
L1502	1-412-006-31	INDUCTOR CHIP	10UH		
		< TRANSISTOR >			
Q1501	8-729-900-80	TRANSISTOR DTC114ES			
Q1502	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q1503	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q1504	8-729-900-65	TRANSISTOR DTA144ES			
Q1505	8-729-900-65	TRANSISTOR DTA144ES			
Q1506	8-729-900-65	TRANSISTOR DTA144ES			
Q1507	8-729-900-65	TRANSISTOR DTA144ES			
Q1508	8-729-900-80	TRANSISTOR DTC114ES			
**********					
	*A-1632-316-A	A BOARD, COMPLETE (KV-16WT1)			
		**********			
	*A-1632-312-A	A BOARD, COMPLETE (KV-16WT1A)			
		**********			
	*A-1632-317-A	A BOARD, COMPLETE (KV-16WT1K)			
		**********			
	*A-1632-318-A	A BOARD, COMPLETE (KV-16WT1R)			
		**********			
	*A-1632-319-A	A BOARD, COMPLETE (KV-16WT1U)			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		< CAPACITOR >			
C001	1-163-105-00	CERAMIC CHIP	33PF	5% 50V	
C002	1-163-105-00	CERAMIC CHIP	33PF	5% 50V	
C004	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C005	1-126-964-11	ELECT	10MF	20% 50V	
C006	1-164-004-11	CERAMIC CHIP	0.1MF	10% 25V	
C007	1-130-777-00	FILM	0.1MF	5% 63V	
C008	1-128-551-11	ELECT	22MF	20% 50V	
C010	1-164-232-11	CERAMIC CHIP	0.01MF	10% 50V	
C011	1-163-038-11	CERAMIC CHIP	0.1MF	25V	
C012	1-163-031-11	CERAMIC CHIP	10000PF	50V	
C014	1-163-038-11	CERAMIC CHIP	0.1MF	25V	
C015	1-126-964-11	ELECT	10MF	20% 50V	
C016	1-164-005-11	CERAMIC CHIP	0.47MF	16V	
C017	1-164-005-11	CERAMIC CHIP	0.47MF	16V	
C019	1-124-903-11	ELECT	1MF	20% 50V	

REF.NO.	PART NO.	DESCRIPTION			REMARK
C020	1-164-004-11	CERAMIC CHIP	0.1MF	10% 25V	
C022	1-124-903-11	ELECT	1MF	20% 50V	
C024	1-163-038-11	CERAMIC CHIP	0.1MF	25V	
C025	1-126-964-11	ELECT	10MF	20% 50V	
C026	1-126-964-11	ELECT	10MF	20% 50V	
C027	1-163-038-11	CERAMIC CHIP	100000PF	25V	
C028	1-163-197-00	CERAMIC CHIP	470PF	10% 50V	
C029	1-163-009-11	CERAMIC CHIP	1000PF	10% 50V	
C030	1-164-232-11	CERAMIC CHIP	0.01MF	10% 50V	
C031	1-163-009-11	CERAMIC CHIP	1000PF	10% 50V	
C101	1-164-005-11	CERAMIC CHIP	0.47MF	16V	
C102	1-164-005-11	CERAMIC CHIP	0.47MF	16V	
C103	1-164-005-11	CERAMIC CHIP	0.47MF	16V	
C104	1-164-232-11	CERAMIC CHIP	0.01MF	10% 50V	(KV-16WT1)
C109	1-163-038-11	CERAMIC CHIP	0.1MF	25V	(KV-16WT1)
C110	1-164-232-11	CERAMIC CHIP	0.01MF	10% 50V	(KV-16WT1)
C112	1-137-399-11	FILM	0.1MF	5% 50V	(KV-16WT1)
C114	1-136-169-00	FILM	0.22MF	5% 50V	
C116	1-124-925-11	ELECT	2.2MF	20% 50V	(KV-16WT1)
C117	1-163-035-00	CERAMIC CHIP	0.047MF	50V	
C120	1-126-923-11	ELECT	220MF	20% 10V	
C121	1-136-153-00	FILM	0.01MF	5% 50V	
C122	1-164-665-11	CERAMIC CHIP	0.039MF	10% 50V	
C123	1-163-105-00	CERAMIC CHIP	33PF	5% 50V	
C124	1-164-665-11	CERAMIC CHIP	0.039MF	10% 50V	
C126	1-126-967-11	ELECT	47MF	20% 16V	
C127	1-128-551-11	ELECT	22MF	20% 50V	
C131	1-163-141-00	CERAMIC CHIP	0.001MF	10% 50V	(KV-16WT1K/16WT1R)
C138	1-124-925-11	ELECT	2.2MF	20% 50V	
C139	1-124-925-11	ELECT	2.2MF	20% 50V	
C140	1-164-232-11	CERAMIC CHIP	0.01MF	10% 50V	
C141	1-128-551-11	ELECT	22MF	20% 50V	
C147	1-164-665-11	CERAMIC CHIP	0.039MF	10% 50V	
C149	1-163-101-00	CERAMIC CHIP	22PF	5% 50V	
C150	1-163-101-00	CERAMIC CHIP	22PF	5% 50V	
C151	1-163-009-11	CERAMIC CHIP	0.001MF	10% 50V	
C152	1-126-964-11	ELECT	10MF	20% 50V	
C153	1-163-099-00	CERAMIC CHIP	18PF	5% 50V	
C154	1-163-031-11	CERAMIC CHIP	0.01MF	50V	
C155	1-163-038-11	CERAMIC CHIP	0.1MF	25V	
C157	1-163-038-11	CERAMIC CHIP	0.1MF	25V	
C158	1-124-927-11	ELECT	4.7MF	20% 50V	
C161	1-164-232-11	CERAMIC CHIP	0.01MF	10% 50V	(KV-16WT1)
C162	1-126-967-11	ELECT	47MF	20% 16V	
C164	1-162-638-11	CERAMIC CHIP	1MF	16V	(KV-16WT1)
C165	1-126-967-11	ELECT	47MF	20% 16V	
C166	1-126-933-11	ELECT	100MF	20% 10V	(KV-16WT1)
C167	1-163-009-11	CERAMIC CHIP	0.001MF	10% 50V	
C168	1-163-205-00	CERAMIC CHIP	0.001MF	10% 50V	
C200	1-163-059-00	CERAMIC CHIP	0.01MF	50V	
C300	1-126-934-11	ELECT	220MF	20% 16V	
C301	1-163-077-00	CERAMIC CHIP	0.1MF	10% 25V	

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A

REF.NO.	PART NO.	DESCRIPTION		REMARK
C302	1-163-035-00	CERAMIC CHIP 0.047MF		50V
C304	1-163-059-91	CERAMIC CHIP 0.01MF	10%	50V
C305	1-124-925-11	ELECT 2.2MF	20%	50V
C306	1-130-494-11	FILM 0.082MF	5%	50V
C307	1-163-038-11	CERAMIC CHIP 0.1MF		25V
C308	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C309	1-124-927-11	ELECT 4.7MF	20%	50V
C310	1-163-077-00	CERAMIC CHIP 0.1MF	10%	25V
C312	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C313	1-163-011-11	CERAMIC CHIP 0.0015MF	10%	50V
C314	1-163-077-91	CERAMIC CHIP 0.1MF		50V
C315	1-163-038-11	CERAMIC CHIP 0.1MF		25V
C316	1-163-038-11	CERAMIC CHIP 0.1MF		25V
C317	1-163-038-11	CERAMIC CHIP 0.1MF		25V
C318	1-163-038-11	CERAMIC CHIP 0.1MF		25V
C319	1-163-038-11	CERAMIC CHIP 0.1MF		25V
C320	1-163-038-11	CERAMIC CHIP 0.1MF		25V
C321	1-124-927-11	ELECT 4.7MF	20%	50V
C323	1-163-163-00	CERAMIC CHIP 18PF	5%	50V
C324	1-163-119-00	CERAMIC CHIP 120PF	5%	50V
C325	1-163-035-00	CERAMIC CHIP 0.047MF		50V
C326	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C328	1-163-035-00	CERAMIC CHIP 0.047MF		50V
C329	1-163-016-00	CERAMIC CHIP 0.0039MF	10%	50V
C330	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C332	1-163-038-11	CERAMIC CHIP 0.1MF		25V
C333	1-163-033-91	CERAMIC CHIP 0.022MF		50V
C334	1-128-551-11	ELECT 22MF	20%	50V
C335	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C336	1-162-638-11	CERAMIC CHIP 1MF		16V
C337	1-162-638-11	CERAMIC CHIP 1MF		16V
C338	1-128-551-11	ELECT 22MF	20%	50V
C339	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C340	1-163-038-11	CERAMIC CHIP 0.1MF		25V
C341	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C344	1-126-967-11	ELECT 47MF	20%	16V
C345	1-163-139-00	CERAMIC CHIP 820PF	10%	50V
C347	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C348	1-163-031-11	CERAMIC CHIP 0.01MF		50V (KV-16WT1)
C349	1-128-551-11	ELECT 22MF	20%	50V (KV-16WT1)
C350	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C351	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C353	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C354	1-163-055-00	CERAMIC CHIP 0.0047MF	10%	50V
C355	1-163-059-00	CERAMIC CHIP 0.01MF		50V
C358	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C359	1-126-964-11	ELECT 10MF	20%	50V
C360	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C401	1-126-967-11	ELECT 47MF	20%	16V
C402	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C404	1-163-038-11	CERAMIC CHIP 0.1MF		25V
C405	1-163-038-11	CERAMIC CHIP 0.1MF		25V
C406	1-124-927-11	ELECT 4.7MF	20%	50V
C407	1-104-666-11	ELECT 220MF	20%	25V
C408	1-126-941-11	ELECT 470MF	20%	25V
C410	1-163-038-11	CERAMIC CHIP 0.1MF		25V
C412	1-163-038-11	CERAMIC CHIP 0.1MF		25V
C413	1-124-927-11	ELECT 4.7MF	20%	50V
C415	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C416	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C417	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C418	1-163-205-00	CERAMIC CHIP 0.001MF	10%	50V
C500	1-130-489-00	FILM 0.033MF	5%	50V
C501	1-124-927-11	ELECT 4.7MF	20%	50V
C502	1-163-077-91	CERAMIC CHIP 0.1MF		50V
C503	1-107-894-11	ELECT 220MF	20%	35V
C504	1-124-122-11	ELECT 100MF	20%	50V
C505	1-126-941-11	ELECT 470MF	20%	25V
C506	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C507	1-124-903-11	ELECT 1MF	20%	50V
C508	1-106-228-00	MYLAR 0.22MF	10%	100V
C509	1-163-035-00	CERAMIC CHIP 0.047MF		50V
C510	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C600	1-126-967-11	ELECT 47MF	20%	50V
C601 ⚠	1-136-516-12	FILM 0.1MF	20%	300V
C602 ⚠	1-136-516-12	FILM 0.1MF	20%	300V
C603 ⚠	1-161-964-91	CERAMIC 0.0047MF		250V
C604 ⚠	1-161-964-91	CERAMIC 0.0047MF		250V
C606	1-113-473-11	CAP, ELECT 180MF		
C607	1-104-666-11	ELECT 220MF	20%	25V
C608	1-126-964-11	ELECT 10MF	20%	50V
C609	1-109-921-11	CERAMIC 0.0015MF	10%	500V
C610	1-104-665-11	ELECT 100MF	20%	25V
C611	1-126-964-11	ELECT 10MF	20%	50V
C612 ⚠	1-164-503-61	CERAMIC 0.0022MF	20%	400V
C613 ⚠	1-164-503-61	CERAMIC 0.0022MF	20%	400V
C614	1-136-538-11	FILM 0.001MF	3%	2KV
C615	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C618	1-162-116-00	CERAMIC 680PF	10%	2KV
C619	1-102-228-00	CERAMIC 470PF	10%	500V
C620	1-124-347-00	ELECT 100MF	20%	160V
C621	1-126-942-61	ELECT 1000MF	20%	25V
C622	1-126-952-11	ELECT 1000MF	20%	16V
C625	1-164-222-11	CERAMIC CHIP 0.22MF		25V
C626	1-126-933-11	ELECT 100MF	20%	10V
C627	1-126-933-11	ELECT 100MF	20%	10V
C800	1-126-772-11	ELECT 1MF	20%	250V
C803	1-136-106-00	FILM 0.36MF	5%	200V
C804	1-124-902-00	ELECT 0.47MF	20%	50V
C806	1-102-244-00	CERAMIC 220PF	10%	500V
C807	1-107-652-11	ELECT 10MF	20%	250V
C809	1-161-754-00	CERAMIC 0.001MF	10%	2KV
C810	1-129-702-00	FILM 0.001MF	10%	400V
C811	1-102-228-00	CERAMIC 470PF	10%	500V
C814	1-111-269-11	FILM 0.007MF	3%	2KV
C815	1-162-116-00	CERAMIC 680PF	10%	2KV
C816	1-162-114-00	CERAMIC 0.0047MF		2KV
C817	1-136-559-11	MYLAR 0.0047MF	10%	400V
C819	1-162-318-11	CERAMIC 0.001MF	10%	500V
C820	1-126-949-11	ELECT 220MF	20%	35V
C822	1-104-696-11	FILM 0.015MF	10%	100V
C823	1-106-375-12	MYLAR 0.022MF	10%	250V
C824	1-106-367-00	MYLAR 0.01MF	10%	400V
C825	1-136-104-00	FILM 0.16MF	5%	200V
C826	1-129-767-51	FILM 0.068MF	10%	200V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		< FILTER >	
CF101	1-404-801-11	TRAP, CERAMIC (KV-16WT1A/16WT1K/16WT1R)	
	1-409-429-11	TRAP, CERAMIC (KV-16WT1U)	
	1-409-430-11	TRAP, CERAMIC (KV-16WT1)	
CF102	1-409-327-00	TRAP, CERAMIC (6.5 MHz) (KV-16WT1K/16WT1R)	
CF103	1-567-100-00	FILTER, CERAMIC (KV-16WT1U)	
	1-760-106-11	FILTER, CERAMIC (KV-16WT1/16WT1A/16WT1K/16WT1R)	
CF104	1-567-101-11	FILTER, CERAMIC (KV-16WT1K/16WT1R)	
CF105	1-760-154-11	TRAP, CERAMIC (KV-16WT1)	
SWF101	1-579-120-11	FILTER, SURFACE WAVE (KV-16WT1A)	
	1-579-273-11	FILTER, SURFACE WAVE (KV-16WT1)	
	1-579-414-11	FILTER, SURFACE WAVE (KV-16WT1K/16WT1R)	
	1-760-711-11	FILTER, SURFACE WAVE (KV-16WT1U)	
SWF102	1-760-722-11	FILTER, SURFACE WAVE (KV-16WT1)	
		< CONNECTOR >	
CN001	*1-568-880-51	PIN, CONNECTOR 5P	
CN201	*1-568-879-11	PIN, CONNECTOR 4P	
CN601	⚠ *1-580-844-11	PIN, CONNECTOR (POWER)	
CN602	⚠ 1-508-786-11	PIN, CONNECTOR (5MM PITCH) 2P	
CN603	⚠ 1-508-786-11	PIN, CONNECTOR (5MM PITCH) 2P	
CN801	*1-580-798-11	CONNECTOR PIN (DY) 6P	
CN804	*1-568-879-11	PIN, CONNECTOR 4P	
CNA81	*1-568-881-51	PIN, CONNECTOR 6P	
CNA82	*1-568-880-51	PIN, CONNECTOR 5P	
		< DIODE >	
D001	8-719-052-94	DIODE LR5360-DG	
D002	8-759-157-40	DIODE μPC574J	
D004	8-719-109-85	DIODE RD5.1ESB2	
D005	8-719-991-33	DIODE 1SS133T-77T-77	
D006	8-719-991-33	DIODE 1SS133T-77T-77	
D014	8-719-991-33	DIODE 1SS133T-77T-77	
D100	8-719-991-33	DIODE 1SS133T-77T-77	
D102	8-719-903-27	DIODE 1SS168 (KV-16WT1)	
D104	8-719-903-27	DIODE 1SS168 (KV-16WT1)	
D105	8-719-991-33	DIODE 1SS133T-77 (KV-16WT1K/16WT1R)	
D106	8-719-991-33	DIODE 1SS133T-77 (KV-16WT1K/16WT1R)	
D107	8-719-991-33	DIODE 1SS133T-77	
D109	8-719-820-71	DIODE 1SV214	
D301	8-719-991-33	DIODE 1SS133T-77	
D302	8-719-991-33	DIODE 1SS133T-77	
D305	8-719-991-33	DIODE 1SS133T-77	
D307	8-719-991-33	DIODE 1SS133T-77 (KV-16WT1)	
D308	8-719-991-33	DIODE 1SS133T-77 (KV-16WT1)	
D309	8-719-991-33	DIODE 1SS133T-77	
D310	8-719-991-33	DIODE 1SS133T-77	
D311	8-719-109-97	DIODE RD6.8ESB2	
D312	8-719-109-97	DIODE RD6.8ESB2	
D313	8-719-109-97	DIODE RD6.8ESB2	
D401	8-719-109-97	DIODE RD6.8ESB2	
D402	8-719-109-97	DIODE RD6.8ESB2	
D403	8-719-109-97	DIODE RD6.8ESB2	
D404	8-719-109-97	DIODE RD6.8ESB2	
D405	8-719-109-97	DIODE RD6.8ESB2	
D406	8-719-109-97	DIODE RD6.8ESB2	
D407	8-719-109-97	DIODE RD6.8ESB2	
D408	8-719-109-97	DIODE RD6.8ESB2	
D409	8-719-991-33	DIODE 1SS133T-77	
D410	8-719-109-97	DIODE RD6.8ESB2	
D501	8-719-302-43	DIODE EL1Z	
D600	8-719-991-33	DIODE 1SS133T-77	
D601	8-719-046-77	DIODE EM1-V1	
D602	8-719-312-61	DIODE EU-1Z	
D603	8-719-046-78	DIODE EG-1Z-V1	
D604	8-719-312-61	DIODE EU-1Z	
D605	8-719-312-61	DIODE EU-1Z	
D606	8-719-979-85	DIODE EGP20G	
D607	8-719-302-43	DIODE EL1Z	
D608	8-719-980-78	DIODE ERA83-006	
D610	8-719-025-88	DIODE GBU4JL-6088	
D611	8-719-991-33	DIODE 1SS133T-77	
D802	8-719-302-43	DIODE EL1Z	
D804	8-719-028-72	DIODE RGP02-17EL-6433	
D806	8-719-302-43	DIODE EL1Z	
D807	8-719-991-33	DIODE 1SS133T-77	
		< FUSE >	
F601	⚠ 1-576-231-11	FUSE (B.B.C.) 4A, 250V	
	1-533-230-11	HOLDER, FUSE ; F601	
		< FERRITE BEAD >	
FB001	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB002	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB003	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB603	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB604	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB605	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
		< IC >	
IC001	8-759-861-72	IC SAA5296ZP/011	
IC002	8-759-280-74	IC ST24C02CB1	
IC003	8-741-790-11	IC SBX1790-11	
IC101	8-759-333-17	IC TDA9812 (KV-16WT1)	
	8-759-333-19	IC TDA9806 (KV-16WT1A/16WT1K/16WT1R/16WT1U)	
IC301	8-759-333-44	IC MC44007P (KV-16WT1A/16WT1U)	
	8-759-333-45	IC MC44002P (KV-16WT1/16WT1K/16WT1R)	
IC401	8-759-041-82	IC TDA1013B	
IC501	8-759-324-56	IC TDA9302H	
IC601	8-749-011-02	IC STR-S5706	
IC603	8-759-337-99	IC TDA8139	
		< JACK/SOCKET >	
J201	1-568-267-21	JACK	
J401	1-695-551-11	SOCKET 21P	
		< COIL >	
L101	1-410-669-31	INDUCTOR 33UH	
L105	1-408-411-00	INDUCTOR 15UH	
L108	1-408-405-00	INDUCTOR 4.7UH (KV-16WT1K/16WT1R)	
	1-408-408-00	INDUCTOR 8.2UH (KV-16WT1/16WT1A/16WT1U)	
L109	1-403-686-11	COIL	
L110	1-410-673-31	INDUCTOR 68UH	
L111	1-410-665-31	INDUCTOR 15UH (KV-16WT1)	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
L112	1-408-417-00	INDUCTOR 47UH	
L113	1-410-985-11	INDUCTOR CHIP 0.22UH	
L201	1-408-609-41	INDUCTOR 33UH	
L603	1-410-669-31	INDUCTOR 33UH	
L604	1-408-417-00	INDUCTOR 47UH	
L800	1-412-553-11	INDUCTOR 3.3MMH	
L802	1-407-365-00	COIL,CHOKE	
L805	1-412-531-91	INDUCTOR 33UH	
L806	1-459-756-91	COIL, HORIZONTAL LINEARITY	
		< IC LINK >	
PS602 ⚠	1-532-686-91	LINK, IC 2.7A (ICP-N75)	
PS603 ⚠	1-532-637-91	LINK, IC 1.0A (ICP-N25)	
		< TRANSISTOR >	
Q001	8-729-922-66	TRANSISTOR 2SC2410SN	
Q002	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
Q005	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q006	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
Q007	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q008	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q009	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q010	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q011	8-729-900-89	TRANSISTOR DTC144ES	
Q012	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q013	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q014	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q015	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q016	8-729-216-22	TRANSISTOR 2SA1162-G	
Q100	8-729-901-01	TRANSISTOR DTC144EK	
Q101	8-729-900-80	TRANSISTOR DTC114ES (KV-16WT1)	
Q102	8-729-900-80	TRANSISTOR DTC114ES (KV-16WT1)	
Q103	8-729-900-80	TRANSISTOR DTC114ES (KV-16WT1)	
Q105	8-729-901-01	TRANSISTOR DTC144EK	
Q107	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q109	8-729-022-54	TRANSISTOR 2SC3779C,D-AA (KV-16WT1)	
Q110	8-729-901-01	TRANSISTOR DTC144EK	
Q111	8-729-900-89	TRANSISTOR DTC144ES (KV-16WT1K/16WT1R)	
Q112	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q113	8-729-900-89	TRANSISTOR DTC144ES (KV-16WT1K/16WT1R)	
Q114	8-729-901-01	TRANSISTOR DTC144EK	
Q115	8-729-026-41	TRANSISTOR 2SA933AS-QRT (KV-16WT1)	
Q116	8-729-900-89	TRANSISTOR DTC144ES (KV-16WT1)	
Q300	8-729-900-80	TRANSISTOR DTC114ES	
Q301	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q302	8-729-900-80	TRANSISTOR DTC114ES	
Q303	8-729-900-80	TRANSISTOR DTC114ES	
Q304	8-729-900-80	TRANSISTOR DTC114ES	
Q305	8-729-900-80	TRANSISTOR DTC114ES	
Q306	8-729-900-80	TRANSISTOR DTC114ES	
Q307	8-729-119-76	TRANSISTOR 2SA1175-HFE (KV-16WT1)	
Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q402	8-729-216-22	TRANSISTOR 2SA1162-G	
Q403	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q404	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q500	8-729-017-06	TRANSISTOR 2SC4793	
Q501	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q600	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q602	8-729-900-65	TRANSISTOR DTA144ES	
Q801	8-729-140-96	TRANSISTOR 2SD774-34	
Q802	8-729-031-72	TRANSISTOR S2055N-16E314A	
Q803	8-729-900-89	TRANSISTOR DTC144ES	
		< RESISTOR >	
JR003	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR004	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR005	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR007	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR008	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR009	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR012	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR014	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR015	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR017	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR018	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR019	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR020	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR021	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR025	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR026	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR027	1-216-296-91	METAL GLAZE 0 5% 1/8W	
R001	1-216-222-00	METAL GLAZE 10K 5% 1/8W	
R002	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R004	1-216-238-91	METAL GLAZE 47K 5% 1/8W	
R005	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R006	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R008	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R009	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R010	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R011	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R012	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R013	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R014	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R015	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R016	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R017	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R018	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R019	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R020	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R021	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R022	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R024	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R025	1-216-222-00	METAL GLAZE 10K 5% 1/8W	
R026	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R027	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W	
R028	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R029	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R030	1-215-900-11	METAL OXIDE 22K 5% 2W F	
R031	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R032	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R033	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R034	1-249-432-11	CARBON 18K 5% 1/4W	
R035	1-247-863-91	CARBON 22K 5% 1/4W	
R036	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R037	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R039	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R040	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R042	1-216-230-00	METAL GLAZE 22K 5% 1/8W	
R044	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R045	1-216-081-00	METAL GLAZE 22K 5% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R046	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R047	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R049	1-216-041-00	METAL GLAZE	470	5%	1/10W
R052	1-216-238-91	METAL GLAZE	47K	5%	1/8W
R055	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R060	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R061	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R062	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R063	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R064	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R065	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R066	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R067	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R068	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R069	1-247-863-91	CARBON	22K	5%	1/4W
R070	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R071	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R072	1-216-230-00	METAL GLAZE	22K	5%	1/8W
R073	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R074	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R075	1-249-436-11	CARBON	39K	5%	1/4W
R078	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R079	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R080	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R081	1-249-438-11	CARBON	56K	5%	1/4W
R088	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R089	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R090	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R091	1-249-427-11	CARBON	6.8K	5%	1/4W
R093	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R094	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R095	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R096	1-216-033-00	METAL GLAZE	220	5%	1/10W
R097	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R098	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R099	1-216-200-11	METAL GLAZE	1.2K	5%	1/8W
R102	1-216-234-00	METAL GLAZE	33K	5%	1/8W
R104	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W (KV-16WT1)
R105	1-216-025-00	METAL GLAZE	100	5%	1/10W (KV-16WT1)
R106	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W (KV-16WT1)
R107	1-216-017-91	METAL GLAZE	47	5%	1/10W (KV-16WT1)
R108	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R109	1-216-025-00	METAL GLAZE	100	5%	1/10W (KV-16WT1)
R110	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R111	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R112	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W (KV-16WT1)
R113	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W (KV-16WT1)
R114	1-216-073-00	METAL GLAZE	10K	5%	1/10W (KV-16WT1)
R115	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W (KV-16WT1)
R116	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R117	1-216-089-91	METAL GLAZE	47K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R118	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R122	1-216-025-00	METAL GLAZE	100	5%	1/10W (KV-16WT1K/16WT1R)
	1-216-029-00	METAL GLAZE	150	5%	1/10W (KV-16WT1/16WT1A/16WT1U)
R123	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R124	1-216-025-00	METAL GLAZE	100	5%	1/10W
R125	1-216-025-00	METAL GLAZE	100	5%	1/10W
R126	1-216-025-00	METAL GLAZE	100	5%	1/10W
R127	1-216-180-00	METAL GLAZE	180	5%	1/8W
R128	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R133	1-249-429-11	CARBON	10K	5%	1/4W
R134	1-216-029-00	METAL GLAZE	150	5%	1/10W (KV-16WT1U)
	1-216-031-00	METAL GLAZE	180	5%	1/10W (KV-16WT1/16WT1A/16WT1K/16WT1R)
R136	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R137	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R138	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R141	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R142	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R143	1-216-295-00	METAL GLAZE	0	5%	1/10W (KV-16WT1/16WT1A/16WT1U)
R144	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W (KV-16WT1K/16WT1R)
R145	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W (KV-16WT1K/16WT1R)
R146	1-216-043-91	METAL GLAZE	560	5%	1/10W
R147	1-216-043-91	METAL GLAZE	560	5%	1/10W (KV-16WT1K/16WT1R)
R149	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W (KV-16WT1K/16WT1R)
R151	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R153	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R154	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R155	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R157	1-216-049-00	METAL GLAZE	1K	5%	1/10W (KV-16WT1)
R158	1-216-031-00	METAL GLAZE	180	5%	1/10W (KV-16WT1)
	1-216-039-00	METAL GLAZE	390	5%	1/10W (KV-16WT1A/16WT1K/16WT1R/16WT1U)
R159	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R160	1-216-238-91	METAL GLAZE	47K	5%	1/8W
R161	1-216-295-00	METAL GLAZE	0	5%	1/10W (KV-16WT1A/16WT1K/16WT1R/16WT1U)
R162	1-216-017-91	METAL GLAZE	47	5%	1/10W (KV-16WT1)
R163	1-249-407-11	CARBON	150	5%	1/4W
R167	1-216-246-91	METAL GLAZE	100K	5%	1/8W
R168	1-249-407-11	CARBON	150	5%	1/4W
R169	1-216-073-00	METAL GLAZE	10K	5%	1/10W (KV-16WT1)
R170	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W (KV-16WT1)
R171	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W (KV-16WT1)
R175	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R176	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R177	1-216-295-00	METAL GLAZE	0	5%	1/10W

The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R178	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R179	1-216-212-00	METAL GLAZE	3.9K	5%	1/8W
R180	1-216-049-00	METAL GLAZE	1K	5%	1/10W (KV-16WT1)
R205	1-247-741-11	CARBON	150	5%	1/2W
R301	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R302	1-216-037-00	METAL GLAZE	330	5%	1/10W
R303	1-216-090-00	METAL GLAZE	51K	5%	1/10W
R304	1-216-025-00	METAL GLAZE	100	5%	1/10W
R305	1-216-025-00	METAL GLAZE	100	5%	1/10W
R307	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R308	1-216-234-00	METAL GLAZE	33K	5%	1/8W
R309	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R310	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R311	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R312	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R313	1-216-045-00	METAL GLAZE	680	5%	1/10W
R314	1-216-045-00	METAL GLAZE	680	5%	1/10W
R315	1-216-045-00	METAL GLAZE	680	5%	1/10W
R316	1-216-033-00	METAL GLAZE	220	5%	1/10W
R317	1-216-182-00	METAL GLAZE	220	5%	1/8W
R318	1-216-019-00	METAL GLAZE	56	5%	1/10W
R322	1-216-022-00	METAL GLAZE	75	5%	1/10W
R323	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R325	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R329	1-216-295-00	METAL GLAZE	0	5%	1/10W
R333	1-216-037-00	METAL GLAZE	330	5%	1/10W
R334	1-216-033-00	METAL GLAZE	220	5%	1/10W
R335	1-216-295-00	METAL GLAZE	0	5%	1/10W
R336	1-216-296-91	METAL GLAZE	0	5%	1/8W
R337	1-216-295-00	METAL GLAZE	0	5%	1/10W
R339	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R340	1-216-115-00	METAL GLAZE	560K	5%	1/10W
R341	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R342	1-216-186-00	METAL GLAZE	330	5%	1/8W
R343	1-216-295-00	METAL GLAZE	0	5%	1/10W
R344	1-216-295-00	METAL GLAZE	0	5%	1/10W
R345	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R347	1-216-041-00	METAL GLAZE	470	5%	1/10W (KV-16WT1)
R348	1-216-073-00	METAL GLAZE	10K	5%	1/10W (KV-16WT1)
R349	1-216-105-00	METAL GLAZE	220K	5%	1/10W (KV-16WT1)
R350	1-216-033-00	METAL GLAZE	220	5%	1/10W (KV-16WT1)
R351	1-216-292-11	METAL GLAZE	8.2M	5%	1/8W
R352	1-216-262-00	METAL GLAZE	470K	5%	1/8W
R353	1-247-804-11	CARBON	75	5%	1/4W
R354	1-216-025-00	METAL GLAZE	100	5%	1/10W
R355	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R356	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R357	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R358	1-216-009-00	METAL GLAZE	22	5%	1/10W
R361	1-216-022-00	METAL GLAZE	75	5%	1/10W
R362	1-216-022-00	METAL GLAZE	75	5%	1/10W
R363	1-216-022-00	METAL GLAZE	75	5%	1/10W
R401	1-216-041-00	METAL GLAZE	470	5%	1/10W
R402	1-249-431-11	CARBON	15K	5%	1/4W
R403	1-249-431-11	CARBON	15K	5%	1/4W
R405	1-249-387-11	CARBON	3.3	5%	1/4W F

REF.NO.	PART NO.	DESCRIPTION			REMARK
R406	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R407	1-216-041-00	METAL GLAZE	470	5%	1/10W
R408	1-216-033-00	METAL GLAZE	220	5%	1/10W
R410	1-247-698-11	CARBON	68	5%	1/4W (KV-16WT1U)
	1-247-804-11	CARBON	75	5%	1/4W (KV-16WT1/16WT1A/16WT1K/16WT1R)
R411	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R412	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R413	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R414	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R415	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R416	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R501	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R502	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R503	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R504	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R505	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R506	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R507	1-216-350-11	METAL OXIDE	1.2	5%	1W F
R508	1-215-865-11	METAL OXIDE	220	5%	1W F
R509	1-249-383-11	CARBON	1.5	5%	1/4W F
R512	1-215-888-00	METAL OXIDE	220	5%	2W F
R513	1-249-425-11	CARBON	4.7K	5%	1/4W
R514	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R515	1-215-912-11	METAL OXIDE	150	5%	3W F
R600	1-216-365-00	METAL OXIDE	0.47	5%	2W F
R601 ⚠	1-205-909-11	WIREWOUND	3.3	5%	10W
R603	1-215-860-11	METAL OXIDE	33	5%	1W F
R604	1-215-927-00	METAL OXIDE	47K	5%	3W F
R606	1-249-441-11	CARBON	100K	5%	1/4W
R607	1-216-366-00	METAL OXIDE	0.56	5%	2W F
R608	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R609	1-215-861-00	METAL OXIDE	47	5%	1W F
R610	1-249-419-11	CARBON	1.5K	5%	1/4W
R611	1-215-430-00	METAL	2.4K	1%	1/4W
R612 ⚠	1-202-719-91	SOLID	1M	10%	1/2W
R614 ⚠	1-218-265-21	METAL	8.2M	5%	1W
R615	1-217-371-00	FUSIBLE	0.47	10%	1/4W F
R617	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R618	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R620	1-215-479-91	METAL	270K	1%	1/4W
R621	1-249-429-21	CARBON	10K	5%	1/4W
R622	1-247-895-91	METAL GLAZE	470K	5%	1/4W
R623	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R624	1-216-033-00	METAL GLAZE	220	5%	1/10W
R625	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R626	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R627	1-216-346-00	METAL OXIDE	0.56	5%	1W F
R630	1-249-401-11	CARBON	47	5%	1/4W
R800	1-215-864-00	METAL OXIDE	150	5%	1W F
R801	1-247-891-00	CARBON	330K	5%	1/4W
R802	1-247-807-31	CARBON	100	5%	1/4W
R803	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R804	1-217-778-11	FUSIBLE	1K	5%	1W F
R806	1-216-353-00	METAL OXIDE	2.2	5%	1W F
R807	1-216-013-00	METAL GLAZE	33	5%	1/10W
R808	1-202-833-11	SOLID	18K	10%	1/2W
R810	1-247-895-91	CARBON	470K	5%	1/4W
R812	1-215-869-11	METAL OXIDE	1K	5%	1W F

A C

The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R814	1-217-811-11	FUSIBLE 0.47 5% 1/4W	
R816	1-216-369-00	METAL OXIDE 1 5% 2W	F
R817	1-216-447-00	METAL OXIDE 27 5% 2W	F
R818	1-202-813-00	SOLID 22K 10% 1/2W	
R819	1-249-441-11	CARBON 100K 5% 1/4W	
R820	1-217-820-11	FUSIBLE 3.3K 5% 1/4W	
		< VARIABLE RESISTOR >	
RV102	1-241-765-11	RES, ADJ, METAL GLAZE 22K (KV-16WT1)	
		< SWITCH >	
S001	1-571-532-21	SWITCH, TACTIL	
S002	1-571-532-21	SWITCH, TACTIL	
S003	1-571-532-21	SWITCH, TACTIL	
S004	1-571-532-21	SWITCH, TACTIL	
S005	1-571-532-21	SWITCH, TACTIL	
S006	1-571-532-21	SWITCH, TACTIL	
S601 ⚠	1-571-433-21	SWITCH, PUSH (AC POWER)	
		< TRANSFORMER >	
T601 ⚠	1-427-962-11	TRANSFORMER, LINE FILTER	
T602 ⚠	1-427-994-11	TRANSFORMER, CONVERTER	
T801	1-437-090-00	HDT	
T802 ⚠	1-453-191-11	TRANSFORMER ASSY, FLYBACK (NX-1740/U2A)	
		< THERMISTOR >	
THP601 ⚠	1-806-165-12	THERMISTOR (POSITIVE)	
		< TUNER >	
TU101	8-598-331-00	TUNER (BT-AC401) (KV-16WT1/16WT1A/16WT1K/16WT1R)	
	8-598-333-00	TUNER (BT-AU601) (KV-16WT1U)	
		< CRYSTAL >	
X001	1-578-774-11	VIBRATOR, CRYSTAL	
X302	1-760-710-21	VIBRATOR, CRYSTAL	
**********			
*A-1638-067-A		C BOARD, COMPLETE **********	
		< CAPACITOR >	
C700	1-136-189-00	FILM 0.1MF 10% 250V	
C701	1-163-197-00	CERAMIC CHIP 470PF 10% 50V	
C702	1-163-197-00	CERAMIC CHIP 470PF 10% 50V	
C703	1-163-197-00	CERAMIC CHIP 470PF 10% 50V	
C704	1-163-197-00	CERAMIC CHIP 470PF 10% 50V	
C705	1-163-197-00	CERAMIC CHIP 470PF 10% 50V	
C706	1-163-197-00	CERAMIC CHIP 470PF 10% 50V	
C709	1-162-114-00	CERAMIC 0.0047MF 2KV	
C710	1-104-664-11	ELECT 47MF 20% 16V	
C711	1-163-201-00	CERAMIC CHIP 680PF 10% 50V	
C712	1-163-201-00	CERAMIC CHIP 680PF 10% 50V	
C713	1-163-201-00	CERAMIC CHIP 680PF 10% 50V	
C714	1-162-318-11	CERAMIC 0.001MF 10% 500V	
		< CONNECTOR >	
CN071	*1-568-881-51	PIN, CONNECTOR 6P	
CN072	*1-568-880-51	PIN, CONNECTOR 5P	
CN073	1-695-915-11	TAB (CONTACT)	
CN074	1-695-915-11	TAB (CONTACT)	
		< DIODE >	
D704	8-719-991-33	DIODE 1SS133T-77	
D705	8-719-991-33	DIODE 1SS133T-77	
D706	8-719-991-33	DIODE 1SS133T-77	
D707	8-719-914-43	DIODE DAN202K	
D708	8-719-991-33	DIODE 1SS133T-77	
D709	8-719-991-33	DIODE 1SS133T-77	
		< CRT SOCKET >	
J901 ⚠	1-251-212-11	SOCKET, CRT	
		< TRANSISTOR >	
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q703	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q704	8-729-906-70	TRANSISTOR BF871-127	
Q705	8-729-906-70	TRANSISTOR BF871-127	
Q706	8-729-906-70	TRANSISTOR BF871-127	
Q707	8-729-200-17	TRANSISTOR 2SA1091-O	
Q708	8-729-200-17	TRANSISTOR 2SA1091-O	
Q709	8-729-200-17	TRANSISTOR 2SA1091-O	
		< RESISTOR >	
R700	1-202-533-11	SOLID 22 5% 1/2W	
R701	1-216-198-91	METAL GLAZE 1K 5% 1/8W	
R702	1-216-198-91	METAL GLAZE 1K 5% 1/8W	
R705	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R706	1-216-296-91	METAL GLAZE 0 5% 1/8W	
R707	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R708	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R709	1-216-182-00	METAL GLAZE 220 5% 1/8W	
R710	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R711	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R714	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R715	1-249-417-11	CARBON 1K 5% 1/4W	
R716	1-216-198-91	METAL GLAZE 1K 5% 1/8W	
R717	1-202-824-00	SOLID 3.3K 10% 1/2W	
R718	1-202-824-00	SOLID 3.3K 10% 1/2W	
R719	1-202-824-00	SOLID 3.3K 10% 1/2W	
R720	1-216-462-00	METAL OXIDE 8.2K 5% W	F
R721	1-216-462-00	METAL OXIDE 8.2K 5% W	F
R722	1-216-462-00	METAL OXIDE 8.2K 5% W	F
R727	1-202-824-00	SOLID 3.3K 10% /2W	
R729	1-216-373-11	METAL OXIDE 2.2 5% W	F
R732	1-202-846-00	SOLID 470K 10% /2W	
R734	1-216-206-00	METAL GLAZE 2.2K 5% /8W	
R735	1-216-206-00	METAL GLAZE 2.2K 5% /8W	
R736	1-249-421-11	CARBON 2.2K 5% /4W	
R740	1-216-198-91	METAL GLAZE 1K 5% /8W	
R741	1-216-049-91	METAL GLAZE 1K 5% /10W	
R742	1-216-049-91	METAL GLAZE 1K 5% /10W	
**********			********

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Replace only with the part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS	
		**********	
⚠	1-411-510-11	COIL, DEGAUSSING	
	1-452-032-00	MAGNET, DISK; 10MM Ø	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
⚠	1-452-787-11	NECK ASSY, PICTURE TUBE (NA-222)	
⚠	1-453-191-11	TRANSFORMER ASSY, FLYBACK (NX-1740/U2A)	
	1-505-200-11	SPEAKER (5X11CM)	
⚠	1-540-007-11	CAP ASSY, HIGH-VOLTAGE	
⚠	1-571-433-21	SWITCH, PUSH (AC POWER)	
⚠	1-690-270-11	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-16WT1/16WT1A/16WT1K/16WT1R)	
⚠	1-590-762-11	CORD, POWER (WITH PLUG) 2.5A/250V (KV-16WT1U)	
⚠	8-451-456-11	DEFLECTION YOKE (Y16GIAK)	
	8-598-331-00	TUNER (BT-AC401) (KV-16WT1/16WT1A/16WT1K/16WT1R)	
	8-598-333-00	TUNER (BT-AU601) (KV-16WT1U)	
V901 ⚠	8-737-803-05	PICTURE TUBE (SD-280)(W36LEZ070X)	
		**********	
		ACCESSORIES AND PACKING MATERIALS	
		**********	
	*4-039-905-02	BAG, PROTECTION	
	4-203-063-11	MANUAL, INSTRUCTION (KV-16WT1) (GERMAN/ENGLISH/DUTCH/ITALIAN/FRENCH)	
	4-203-087-11	MANUAL, INSTRUCTION (KV-16WT1) (SPANISH/DANISH/SWEDISH/FINNISH/GREEK/PORTUGUESE)	
	4-203-063-41	MANUAL, INSTRUCTION (KV-16WT1A) (ITALIAN)	
	4-203-063-91	MANUAL, INSTRUCTION (KV-16WT1K) (ENGLISH/CZECH/POLISH/HUNGARIAN)	
	4-203-087-91	MANUAL, INSTRUCTION (KV-16WT1R) (FRENCH/GERMAN/ITALIAN)	
	4-203-061-61	MANUAL, INSTRUCTION (KV-16WT1U) (ENGLISH)	
	*4-203-101-01	INDIVIDUAL CARTON	
	*4-203-102-01	CUSHION (TOP) (ASSY)	
	*4-203-103-01	CUSHION (LOWER) (ASSY)	
		REMOTE COMMANDER	
		**********	
	1-473-194-11	COMMANDER, STANDARD TYPE (RM-836)	

SERVICE MANUAL

BE-4 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-16WT1	RM-836	Italian	SCC-H64G-A
KV-16WT1A	RM-836	Italian	SCC-H64F-A
KV-16WT1K	RM-836	French	SCC-H65F-A

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-16WT1R	RM-836	OIRT	SCC-H52H-A
KV-16WTU	RM-836	OIRT	SCC-H52F-A

SUPPLEMENT - 1

SUBJECT : ADDITION OF U BOARD

File this supplement with the service manual

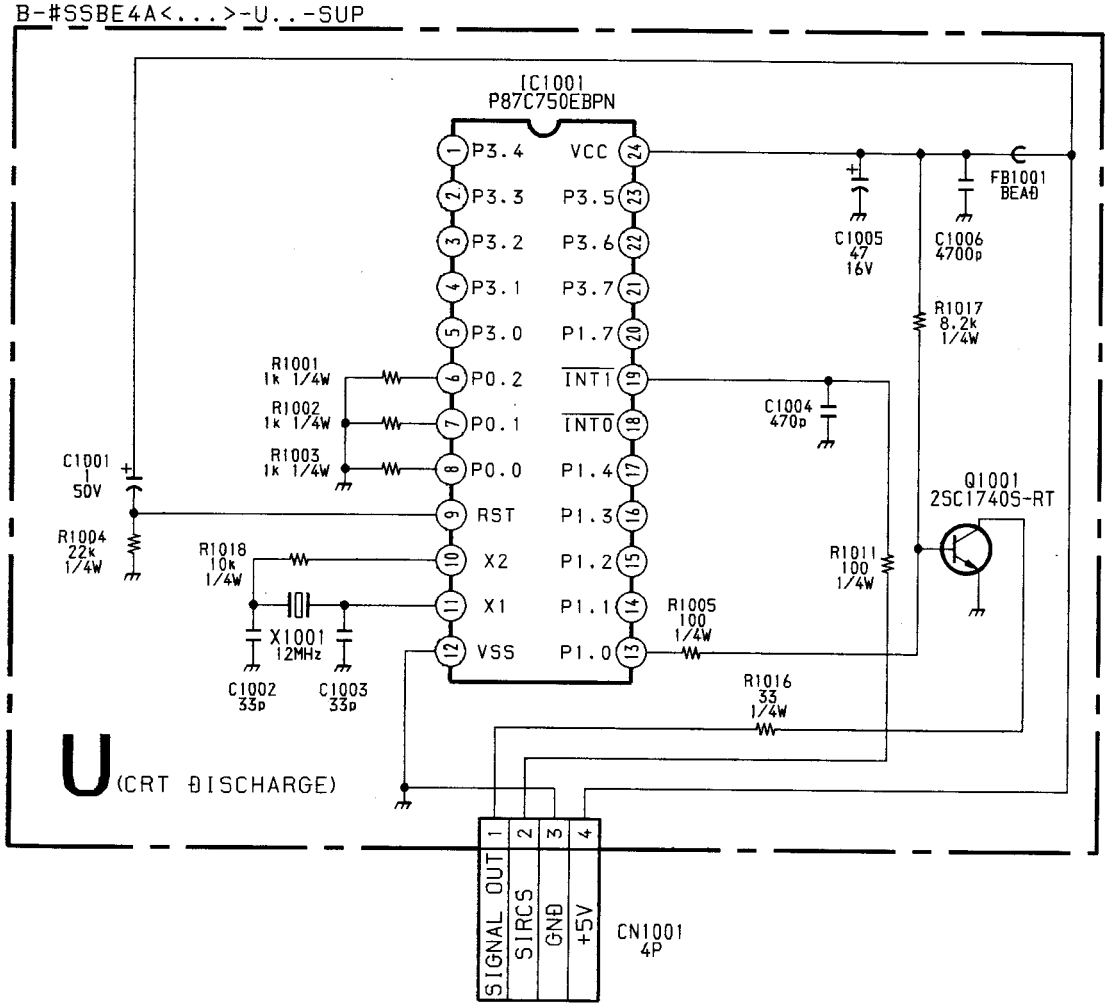
MICROFILM

TRINITRON® COLOR TV

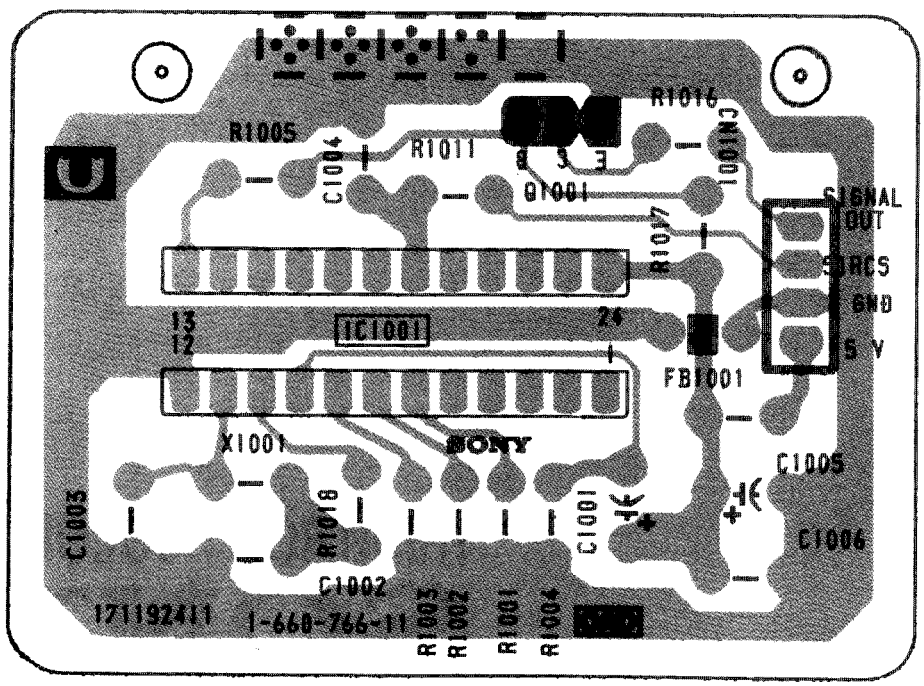
SONY®

U [CRT DISCHARGE]

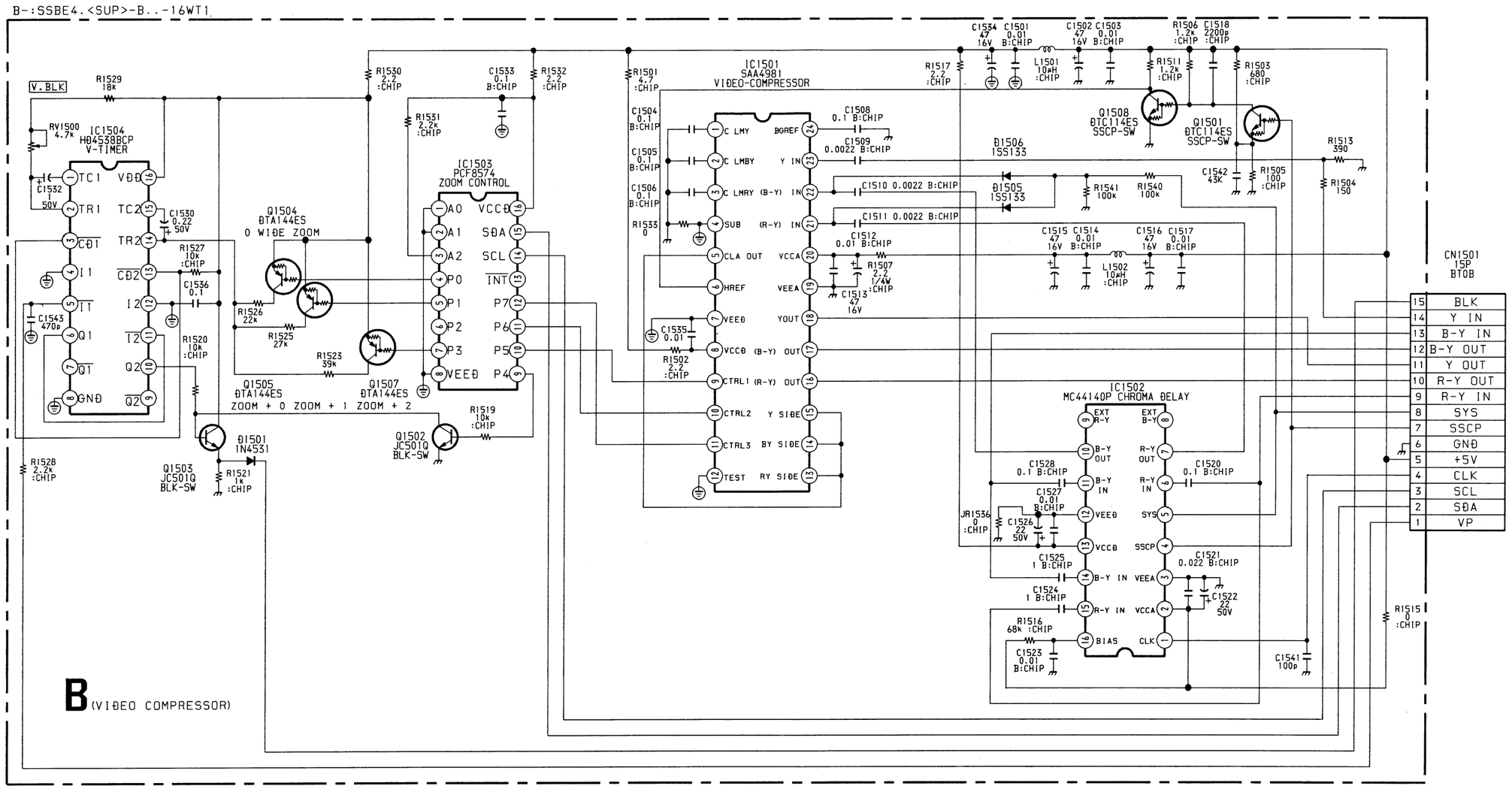
B-#SSBE4A<...>-U..-SUP



U Board



B [VIDEO COMPRESSOR]



A SYSTEM CONTROL, HORIZONTAL OUTPUT, VERTICAL OUTPUT, CHROMINANCE, POWER, AUDIO

A BOARD

IC

IC001	H-4
IC002	G-4
IC003	C-1
IC101	G-10
IC301	G-5
IC302	H-7
IC401	E-3
IC501	D-9
IC601	A-5
IC603	D-3
IC801	B-8

TRANSISTOR

Q001	H-8
Q002	I-4
Q005	H-2
Q006	H-9
Q007	G-1
Q008	F-1
Q009	E-1
Q010	F-4
Q011	H-8
Q012	G-3
Q013	F-3
Q014	G-2
Q015	G-4
Q016	F-3
Q100	F-2
Q101	G-11
Q102	G-11
Q103	G-11
Q105	F-2
Q107	H-9
Q109	G-10
Q110	H-5
Q111	G-8
Q112	G-12
Q113	G-9
Q114	F-2
Q115	F-10
Q116	F-9
Q300	F-7
Q301	F-6
Q302	F-7
Q303	G-7
Q304	F-7
Q305	G-7
Q306	G-8
Q307	F-8
Q401	H-10
Q402	F-2
Q403	F-3
Q404	F-4
Q500	D-11
Q501	D-11
Q600	D-6
Q602	D-6
Q801	E-6
Q802	C-9
Q803	E-5

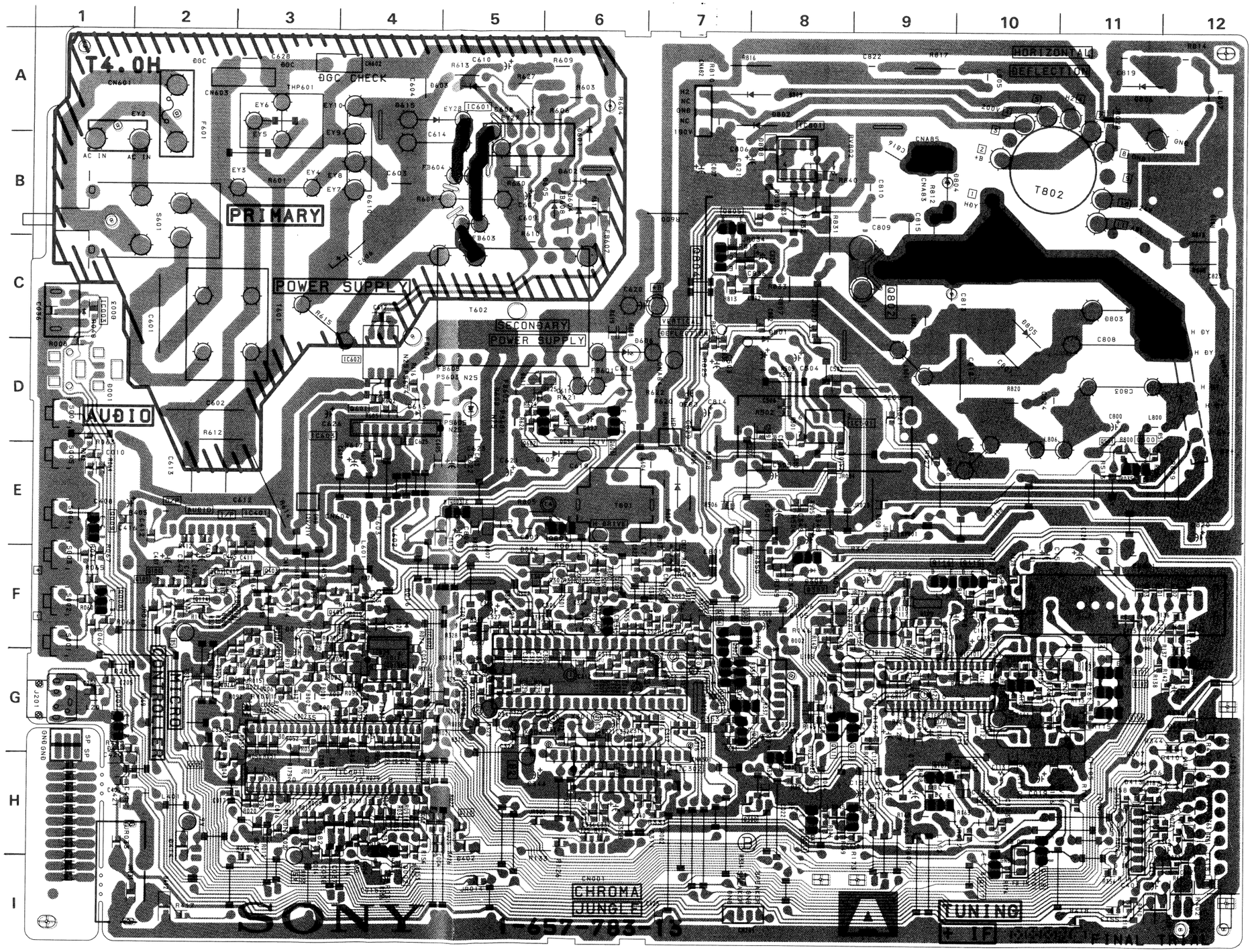
DIODE

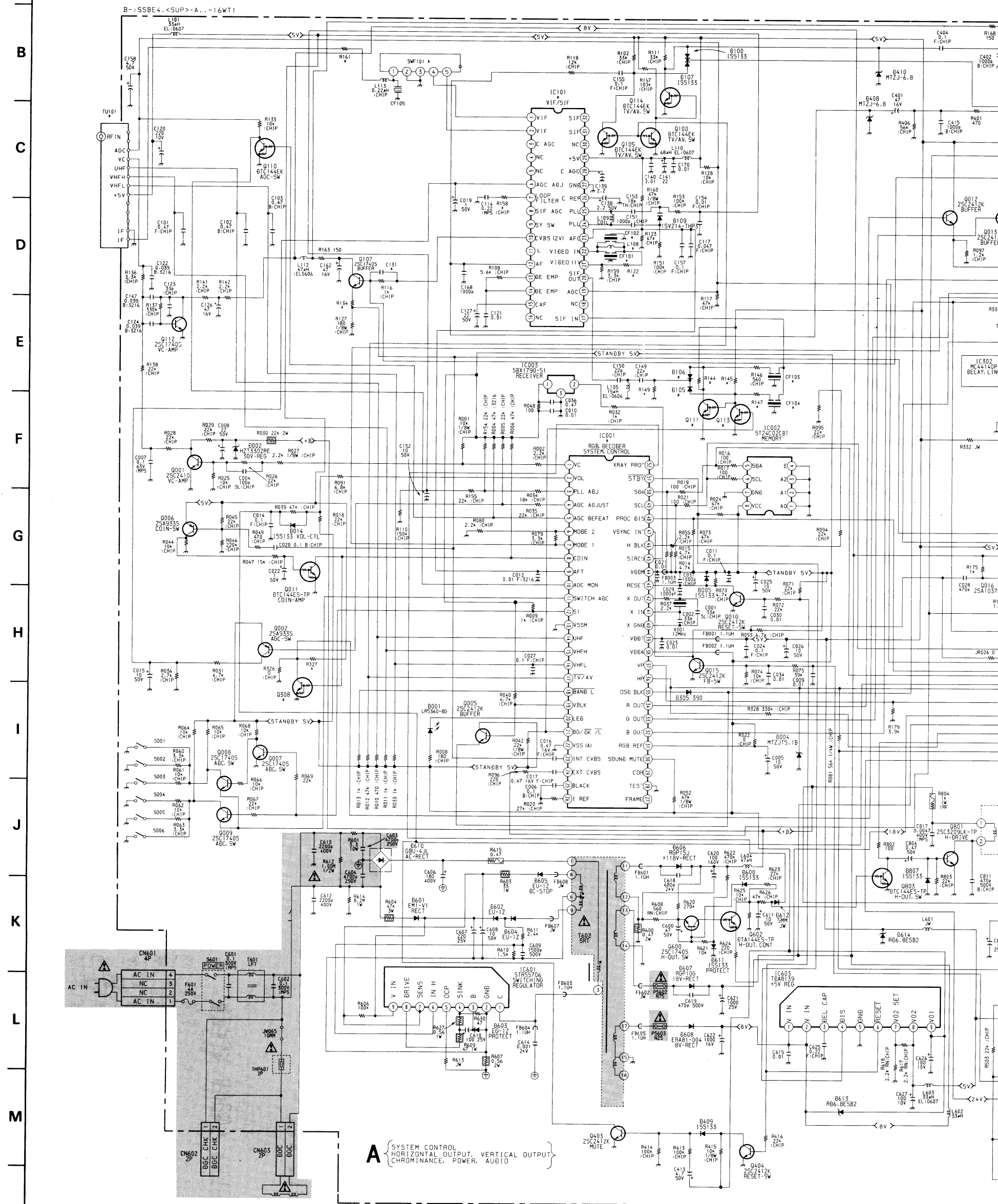
D001	D-1
D002	F-8
D004	F-5
D005	G-4
D006	G-3
D014	I-4
D100	F-3
D102	G-11
D104	G-11
D105	F-8
D106	F-8
D107	F-2
D109	F-9
D301	F-6
D302	F-7
D305	G-2
D307	G-11
D308	F-8
D310	G-5
D311	G-8
D312	G-7
D313	G-8
D401	H-12
D402	H-5
D403	H-12
D404	H-12
D405	H-12
D406	H-11
D407	G-12
D408	I-12
D409	F-3
D410	I-11
D501	C-8
D600	D-6
D601	A-6
D602	B-6
D603	A-5
D604	B-6
D605	B-6
D606	D-6
D607	E-6
D608	D-5
D610	B-4
D611	D-6
D802	A-8
D803	C-11
D804	B-9
D806	A-11
D807	E-5

VARIABLE RESISTOR

RV102	H-10
RV802	B-8

A Board




B-:SSBE4.<SUP>-A..-16WT1
IC101 VIF/SIF
IC001 RGB, DECODER SYSTEM CONTROL
IC003 5BX1790-51 RECEIVER
IC002 ST24C02CB1 MEMORY
IC601 STR5706 SWITCHING REGULATOR
IC603 TDA8139 +5V REG
Q100 DTC144EK TV/AV. SW
Q105 DTC144EK TV/AV. SW
Q114 DTC144EK TV/AV. SW
Q110 DTC144EK AGC-SW
Q107 2SC1740S BUFFER
Q112 2SC1740G VC-AMP
Q001 2SC2410 VC-AMP
Q002 2SA933S AGC-SW
Q006 2SA933S COIN-SW
Q011 DTC144ES-TP COIN-AMP
Q008 2SC1740S ADC. SW
Q007 2SC1740S ADC. SW
Q009 2SC1740S ADC. SW
Q005 2SC2412K BUFFER
Q012 2SC2412K BUFFER
Q010 2SC2412K RESET-SW
Q015 2SC2412K FB-SW
Q403 2SC2412K MUTE
Q404 2SC2412K RESET-SW
Q600 2SC1740S H-OUT. SW
Q602 DTA144ES-TP H-OUT. CONT
Q801 2SC3209LK-TP H-DRIVE
Q803 DTC144ES-TP H-OUT. SW
D100 1SS133
D107 1SS133
D408 MTZJ-6.8
D410 MTZJ-6.8
D109 1SV214-TPH3
D305 390
D001 LR5360-BG
D004 MTZJT5.1B
D610 GBU-4JL AC-RECT
D406 RGP15J +118V-RECT
D607 RGP10G 18V-RECT
D608 ERA81-004 8V-RECT
D613 RB6.8ESB2
D614 RB6.8ESB2
D600 1SS133
D807 1SS133
D409 1SS133
D611 1SS133 PROTECT
D014 1SS133 VOL-CTL
D002 HZT5502RE 30V-REG
D605 EU-1Z DC-STOP
D602 EU-1Z
D604 EU-1Z
D603 EG-1Z PROTECT
D601 EM1-V1 RECT
TU101
T602 SRT
T601 LFT
S601 POWER
S001 S002 S003 S004 S005 S006
CN601 4P
CN602 2P
CN603 2P
THP401 2P
SWF101
CF105
CF101
CF102
CF103
CF104
L101 35uH EL:0607
L105 15uH EL:0606
L110 68uH EL:0607
L112 47uH :EL0606
L113 0.22uH :CHIP
L601 JW
L602 33uH
L603 33uH EL:0607
L604 47uH
5V
8V
18V
24V
STANDBY 5V
+B
AC IN
RF IN
VSYNC IN
H BLK
SIRCS
RESET
X OUT
X IN
X GND
OSD BLK
R OUT
G OUT
B OUT
RGB REF
SOUND MUTE
FRAME
XRAY PROT
PROC DIS
SDA
SCL
VCC
GND
A0
A1
A2
SYSTEM CONTROL
HORIZONTAL OUTPUT, VERTICAL OUTPUT
CHROMINANCE, POWER, AUDIO

J401 21P
J1401
AUDIO
VIDEO
CN201 4P WHT :MINI
GND
SPEAKER
GND
SPEAKER
J201
L201 33uH :EL
C200 0.01 F:CHIP
R205 150 1/2W
C425 0.1
D412 RD6.8ES2
IC401 TDA1013B AUDIO-AMP
GND OUT VCC FILTER AMP IN PRE OUT VOL PRE IN GND
C408 470 25V
C412 0.1 F:CHIP
C410 0.1 F:CHIP
C405 0.1 F:CHIP
C343 0.1
R411 55k :CHIP
R412 220k :CHIP
C406 4.7 50V
C407 220 25V
R405 4.7 :FPRB
Q305 DTC114ES-TP CUT-OFF
Q304 DTC114ES-TP CUT-OFF
Q306 DTC114ES-TP CUT-OFF
Q303 DTC114ES-TP CUT-OFF
Q302 DTC114ES-TP CUT-OFF
Q300 DTC114ES-TP CUT-OFF
Q402 2SA1037K VOL-CNT
C417 0.01 F:CHIP
R313 680 :CHIP
R314 680 :CHIP
R315 680 :CHIP
C353 100p SL:CHIP
R317 220 1/8W :CHIP
R316 220 :CHIP
D302 1SS133
R355 0 :CHIP
R356 0 :CHIP
R357 0 :CHIP
C359 10 50V
C360 0.01
R351 8.2M 1/8W :CHIP
R340 560k :CHIP
C350 0.01
R356 1M
C358 0.01
R352 470k :3216
R357 56k
Q301 2SC1740S H-BUFFER
R359 3.3k :CHIP
C309 4.7 50V
R309 1M :CHIP
D301 1SS133
R308 33k 1/8W :CHIP
C308 0.01 B:CHIP
R307 1M :CHIP
C307 0.1 F:CHIP
R341 10k :CHIP
C304 0.082 :MPS
C356 0.01 F:3216
C354 4700p F:3216
R305 100 :CHIP
R304 100 :CHIP
R303 15k :CHIP
C304 0.01 :3216
C305 2.2 50V
C301 0.1 :3216
R306 470k
R345 47k :CHIP
C347 0.01 B:CHIP
C302 0.047 F:CHIP
R353 75
C310 0.1 :3216
R310 47k :CHIP
R801 330k :CHIP
C327 470pF
C312 0.1 B:CHIP
C314 0.1 F:CHIP
C345 820p B:CHIP
R355 1M
R312 47k :CHIP
C315 1500p B:CHIP
R312 47k :CHIP
C320 0.1 F:CHIP
C321 4.7 50V
C319 0.1 F:CHIP
C316 0.1 F:CHIP
C317 0.1 F:CHIP
JR016 0
C315 0.1 F:CHIP
R334 220 :CHIP
TO B BOARD CN1501
CN301 15P
IC302 MC44140P DELAY LINE
EXTB-Y EXTR-Y B-YOUT R-YOUT B-YBIN R-YBIN GND VDD B-YAIN R-YAIN BIAS SS SC GND VDD CLK
R332 JW
C332 0.1 F:CHIP
C322 22pF
X301
C323 18pF :3216
X302 17.7344MHz
C324 120p :CHIP
C325 0.047 F:CHIP
JW054 3.3K
C344 0.1 B:CHIP
C326 4.7 16V
C341 0.01 B:CHIP
C328 0.047 F:CHIP
R323 47k :CHIP
R325 47k :CHIP
JW068 15.0MM
C350 0.1 B:CHIP
C329 3900p B:CHIP
D414 1SS133
IC301 CHROMA PROCESSOR
FC FB B IN B OUT G IN G OUT R IN R OUT Y2 IN S GND B-Y IN HZF R-Y IN HIF Y1 CL HFP Y1 OUT H OUT SYS SCM SSCP BCL NTSC AC PAL/SCM VCENT GND V OUT VCC VR B-Y OUT SDA R-Y OUT SCL IB RC OLF V2 IN V1 IN ACC
R175 1k
C028 470p
Q016 2SA1037K
D006 1SS133
R177 0
R178 1.8k
R176 1k
JR026 0 :CHIP
JW150 20.0MM
5V
18V
24V
Q012 2SC2412K BUFFER
Q014 2SC2412K BUFFER
Q401 2SC1740S VIDEO-AMP
Q013 2SC2412K BUFFER
R098 1.2k :CHIP
R099 1.2k :CHIP
R407 470 :CHIP
R097 1.2k :CHIP
R088 2.7k :CHIP
R089 2.7k :CHIP
R090 2.7k :CHIP
R408 220 :CHIP
D401 MTZJ-6.8
D402 MTZJ-6.8
D403 MTZJ-6.8
D404 MTZJ-6.8
D405 MTZJ-6.8
D406 MTZJ-6.8
D407 MTZJ-6.8
R401 470
R402 15k
R403 15k
R362 75 :CHIP
R363 75 :CHIP
R078 8.2k
R361 75 :CHIP
R358 22 :CHIP
R409 15k
R410 *
L401 33uH
C409 470pF
C415 1000p B:CHIP
C402 1000p B:CHIP
C165 47 16V
C404 0.1 F:CHIP
R168 150
R406 56k :CHIP
C401 47 16V
R302 330 :CHIP
R333 330 :CHIP
R343 0 :CHIP
R342 330 :CHIP
R318 56 :CHIP
R344 0 :CHIP
CN001 5P
R126 100
R125 100
R124 100
AGC
CS
SDA
SCL
GND
SERVICE CONNECTOR
CN081 6P
B OUT
G OUT
R OUT
IFB
GND
+5V
TO C BOARD CN071
CN082 5P
H2
N/C
GND
N/C
+190V
TO C BOARD CN072
HV TO CRT
FV TO C BOARD
T802 FBT
D809 RGP10G
D803 ERC06
D805 RGP15J
Q802 2SD55N H-OUT
T801 HDT :HRT
Q801 2SC3209LK-TP H-DRIVE
Q803 DTC144ES-TP H-OUT SW
D807 1SS133
D806 RGP10G 24V-RECT
D802 RGP10G 190V-RECT
D614 RD6.8ES2
C819 0.001 500V
C820 220 35V
R814 0.47 1/4W :RF
R804 1k 1W :RF
R806 2.2 1W :RS
L801 JW
R807 33 :CHIP
R817 27 2W :RS
R816 1 2W :RS
C822 0.015 100V
L805 33uH
C808 0.0073
C801 0.056
C802 0.0047 400V :MPS
C804 0.47 50V
C811 470p 500V B:CHIP
R805 22k :CHIP
C806 220p 500V
C807 10 250V
R810 470k
L601 1W
C815 680p 2kV
C809 1000p 2kV
C810 0.001 400V :MPS
C814 0.007 2kV
R818 22k 1/2W :RC
C823 0.022 250V
R819 100k
R826 JW
C803 0.36 200V
R800 150 1W :RS
L800 3.3mH
C800 0 250V
L806 HLC
L803
C824 0.01 400V :MPT
R820 3.3k :RF
C827 0.003
R824 1M
R822 180k
L804
R815 33k
C818 0.89
C812 0.01
R813 0
C828 1
Q804 2SD1761
R823 3.3k
R825 100k
R811 390
JR024 0 :CHIP
R831 1k
D808 MTZJ-12A
C821 100
R829 150
RV802 47k
R830 220k
C830 47
R507 1.2 1W
IC801 LM393P
R833 1k
R832 10k
IC501 TBA9302H VERTICAL OUTPUT
IN V VSS FB GND OUT VSOS VREF
Q500 2SB1243A V-AMP
Q501 2SC1740S V-AMP
R514 47k :CHIP
C510 0.01
R503 22k :CHIP
R513 4.7k
D501 RGP10GPKG23 BOOST
C504 100 50V
R509 1.5
C507 1 50V
C509 0.047 F:CHIP
C500 0.033
C506 1000p B:CHIP
C502 0.1 F:3216
C503 220 35V
C508 0.22 100V
R508 220 1W :RS
R502 12k RN:CHIP
R504 82k :CHIP
R505 12k :CHIP
C501 4.7 50V
R506 18k :CHIP
C505 470 25V
R501 10k RN:CHIP
R821 0 :CHIP
R828 270k
C835 0.0022
H DY
V DY -
V DY +
DY
H.DY
H.GY V.GY
V.DY

SECTION 6

EXPLODED VIEWS

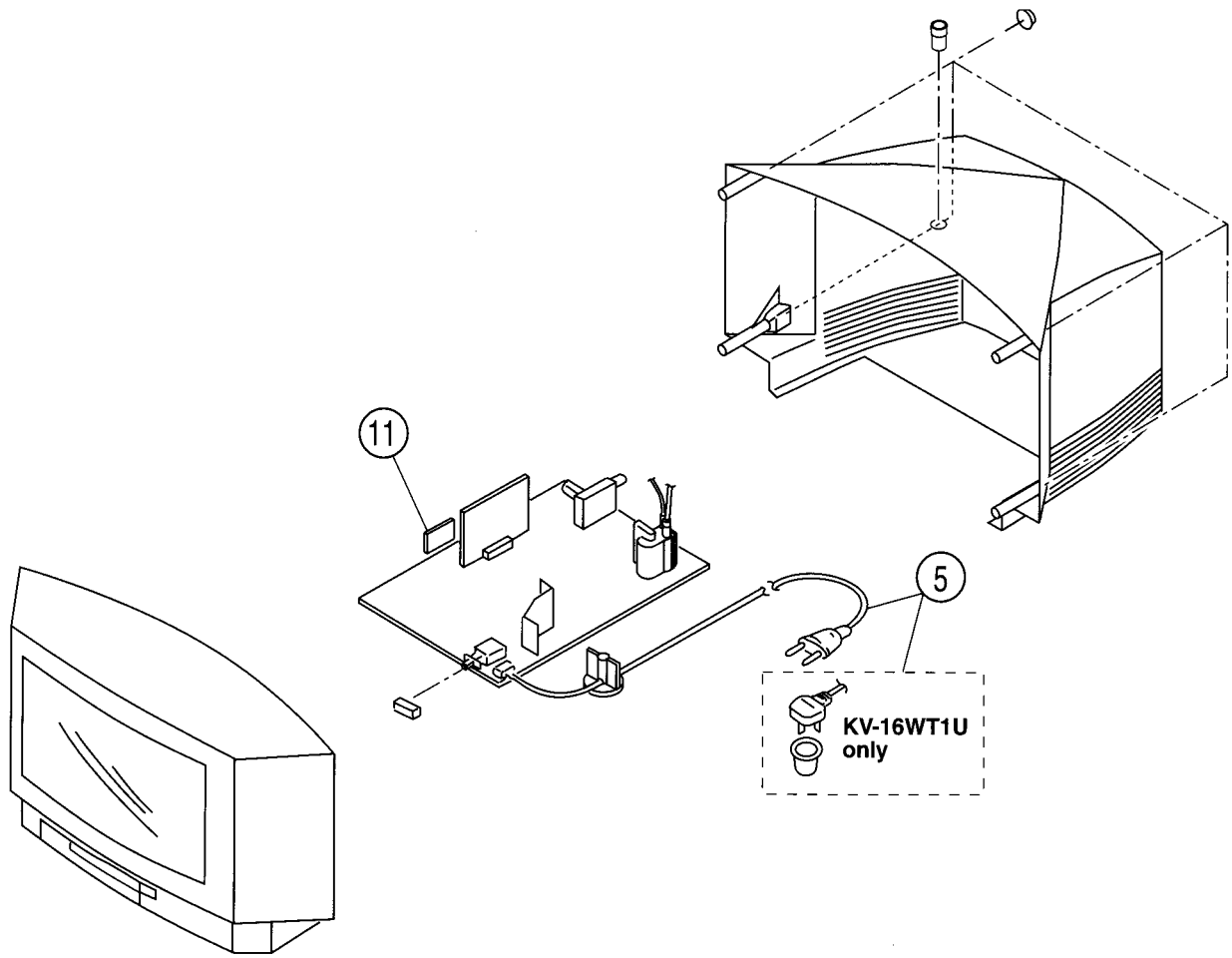
NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

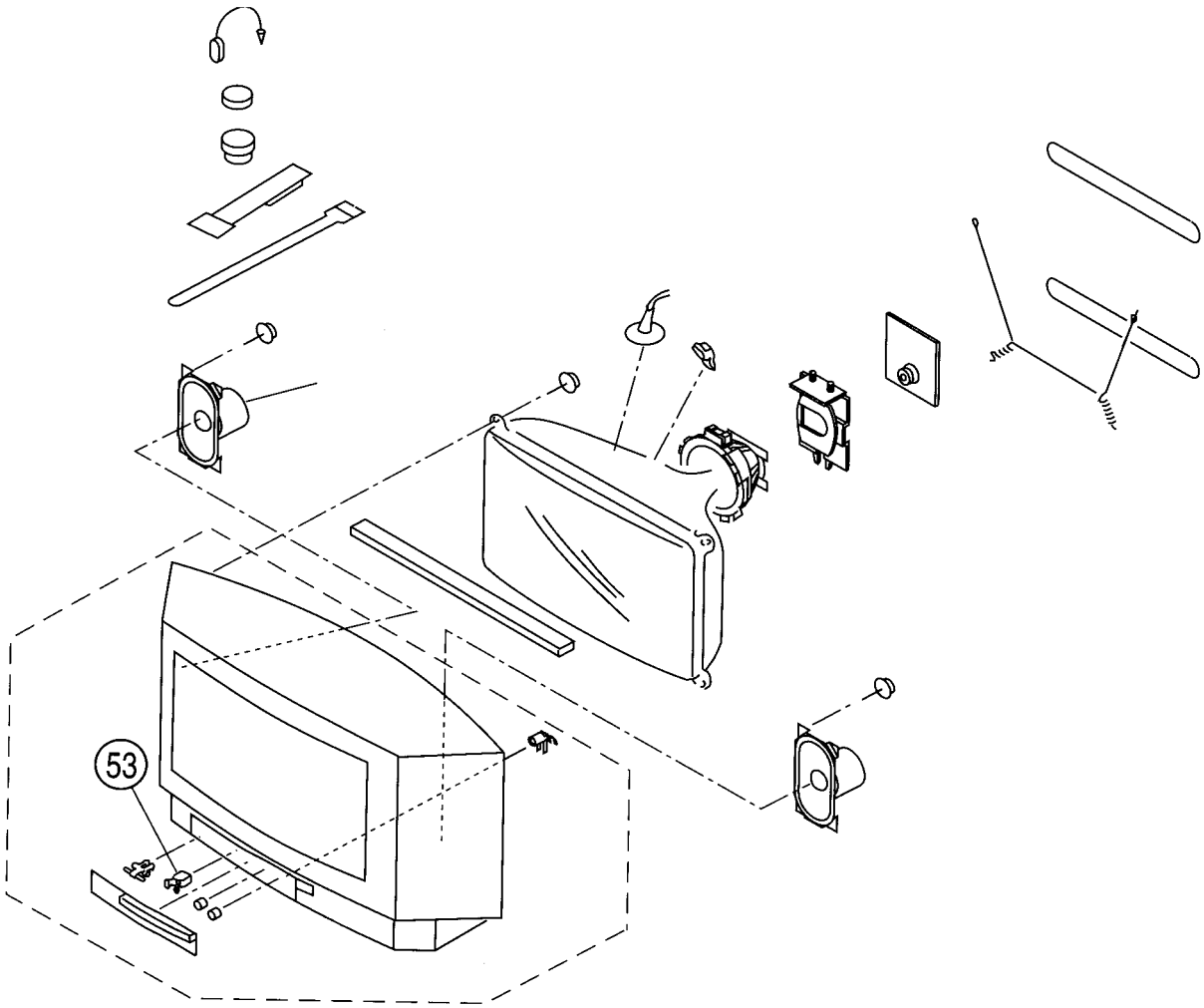
Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS



REF NO	PART NO	DESCRIPTION	REMARK
5	⚠ 1-690-270-11	CORD, POWER (WITH CONNECTOR)	2.5A/250V (KV-16WT1U)
11	*A-1648-006-A	U BOARD, COMPLETE	

6-2. PICTURE TUBE



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
53	4-047-464-01	CATCHER, PUSH					

SECTION 7

ELECTRICAL PARTS LIST

When indicating parts by reference number, please include the board name.

CAPACITORS
MF : mF, PF : mmF

COILS
MMH : mH, μH : mH

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

The components identified by shading and marked ! are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ! sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

B A

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1620-060-A	B BOARD, COMPLETE	
		**********	
		< CAPACITOR >	
C1507	DELETED		
C1510	1-164-004-11	CERAMIC CHIP 0.1MF 10% 50V	
C1511	1-164-004-11	CERAMIC CHIP 0.1MF 10% 50V	
C1518	1-164-004-11	CERAMIC CHIP 0.1MF 10% 50V	
C1530	1-137-133-11	FILM 0.15MF 5% 63V	
C1532	1-130-776-00	FILM 0.47MF 5% 63V	
C1535	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1536	1-163-077-00	FILM 0.1MF 50% 50V	
C1541	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C1542	1-216-960-91	METAL 43K 1% 0.6W	
C1543	1-102-824-00	CERAMIC CHIP 470PF 5% 50V	
		< CONNECTOR >	
CN1501	1-766-953-11	CONNECTOR BOARD TO BOARD 15P	
		< DIODE >	
D1505	8-719-991-33	DIODE 1SS133T-77	
D1506	8-719-991-33	DIODE 1SS133T-77	
		< RESISTOR >	
R1501	1-216-296-91	METAL GLAZE 0 5% 1/8W	
R1502	1-410-200-31	INDUCTOR CHIP 4.7UH	
R1503	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1504	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R1505	1-216-047-91	METAL GLAZE 820 5% 1/10W	
R1506	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1507	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R1511	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R1513	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R1517	1-410-200-31	INDUCTOR CHIP 4.7UH	
R1522	DELETED		
R1523	1-216-234-00	METAL GLAZE 33K 5% 1/8W	
R1524	DELETED		
R1529	1-216-234-00	METAL GLAZE 33K 5% 1/8W	
R1533	1-216-295-91	CONDUCTOR, CHIP	
R1540	1-247-879-91	CARBON 100K 5% 1/4W	
R1541	1-247-879-91	CARBON 100K 5% 1/4W	
		< VARIABLE RESISTOR >	
RV1500	1-241-630-11	RES, ADJ, CARBON 10K	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		< TRANSISTOR >	
Q1502	8-729-900-95	TRANSISTOR 2SC1740S-RT	
Q1503	8-729-900-95	TRANSISTOR 2SC1740S-RT	
Q1506	DELETED		
		**********	
	*A-1632-316-A	A BOARD, COMPLETE (KV-16WT1)	
		**********	
	*A-1632-312-A	A BOARD, COMPLETE (KV-16WT1A)	
		**********	
	*A-1632-317-A	A BOARD, COMPLETE (KV-16WT1K)	
		**********	
	*A-1632-318-A	A BOARD, COMPLETE (KV-16WT1R)	
		**********	
	*A-1632-319-A	A BOARD, COMPLETE (KV-16WT1U)	
		**********	
	4-382-854-11	SCREW (M3X10), P, SW (+)	
		< CAPACITOR >	
C009	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C012	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C021	1-163-059-00	CERAMIC CHIP 0.01MF 10% 50V	
C023	1-163-059-00	CERAMIC CHIP 0.01MF 10% 50V	
C025	1-126-952-11	ELECT 1000MF 20% 16V	
C028	1-164-005-11	CERAMIC CHIP 0.0047MF 10% 50V	
C034	1-136-153-00	FILM 0.01MF 5% 50V	
C036	1-164-005-11	CERAMIC CHIP 0.47MF 25V	
C104	DELETED		
C109	DELETED		
C110	DELETED		
C112	DELETED		
C116	DELETED		
C120	1-126-925-11	ELECT 470MF 20% 10V	
C131	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V (KV-16WT1K/16WT1R)	
C153	1-163-097-00	CERAMIC CHIP 15PF 5% 50V	
C161	DELETED		
C164	DELETED		
C166	DELETED		
C167	DELETED		
C170	1-101-004-00	CERAMIC CHIP 0.01MF 10% 50V	
C303	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
C314	1-163-077-00	CERAMIC CHIP 0.1MF 10% 25V	
C318	DELETED		
C322	1-163-101-00	CERAMIC CHIP 22PF 5% 50V	

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The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C327	1-163-005-11	CERAMIC CHIP 470PF 10%	50V
C332	1-216-295-91	CONDUCTOR, CHIP	
C333	DELETED		
C334	DELETED		
C335	DELETED		
C336	DELETED		
C337	DELETED		
C338	DELETED		
C339	DELETED		
C340	DELETED		
C343	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C348	DELETED		
C349	DELETED		
C351	DELETED		
C358	1-163-017-00	CERAMIC CHIP 0.0047MF 10%	50V
C404	1-164-346-11	CERAMIC CHIP 1MF	16V
C405	1-164-222-11	CERAMIC CHIP 0.22MF	25V
C409	1-163-005-11	CERAMIC CHIP 470PF 10%	50V
C416	DELETED		
C418	DELETED		
C425	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C510	1-163-005-11	CERAMIC CHIP 470PF 10%	50V
C612 ⚠	1-113-937-11	ELECT 0.0022MF 20%	250V
C613 ⚠	1-113-937-11	ELECT 0.0022MF 20%	250V
C622	1-111-041-11	ELECT 0.001MF 20%	16V
C801	1-130-895-00	FILM 0.056MF 10%	200V
C803	1-136-597-11	FILM 0.89MF 5%	200V
C808	1-136-073-00	FILM 0.0073MF 3%	2KV
C812	1-163-059-91	CERAMIC CHIP 0.01MF 10%	50V
C814	1-106-367-00	MYLAR 0.01MF 10%	400V
C816	DELETED		
C818	1-136-597-11	FILM 0.89MF 5%	200V
C821	1-126-968-11	ELECT 100MF 20%	50V
C825	DELETED		
C826	DELETED		
C827	1-164-182-11	CERAMIC CHIP 0.003MF 10%	50V
C828	1-124-903-11	ELECT 1MF 20%	50V
C830	1-126-967-11	ELECT 47MF 20%	50V
C835	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
	< FILTER >		
CF105	1-760-154-11	TRAP, CERAMIC (KV-16WT1U)	
SWF102	DELETED		
	< CONNECTOR >		
CN301	* 1-766-956-11	CONNECTOR BOARD TO BOARD 15P	
CN804	DELETED		
	< DIODE >		
D102	DELETED		
D104	DELETED		
D305	1-249-412-11	CARBON 390 5%	1/4W
D307	DELETED		
D308	DELETED		
D309	DELETED		
D310	DELETED		
D311	DELETED		
D312	DELETED		
D313	DELETED		

REF.NO.	PART NO.	DESCRIPTION	REMARK
D412	8-719-109-97	DIODE RD6.8ESB2	
D414	8-719-991-13	DIODE 1SS133T-77	
D613	8-719-109-89	DIODE RD5.6ESB2	
D614	8-719-109-89	DIODE RD5.6ESB2	
D803	8-719-945-80	DIODE ERC06-15STP11	
D804	DELETED		
D805	8-719-979-85	DIODE RGP15J-6040G23	
D806	8-719-300-33	DIODE RU2AM	
D808	8-719-921-83	DIODE MTZJ-T-77-12A	
D809	8-719-302-43	DIODE RGP10GPKG23	
	< FERRITE BEAD >		
FB801	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
	< IC >		
IC801	8-759-103-93	IC LM393P	
	< JACK/SOCKET >		
J1401	1-563-500-11	JACK BLOCK, PIN (L TYPE) 2P	
	< COIL >		
L111	DELETED		
L401	1-408-609-41	INDUCTOR 33UH	
L602	1-408-609-41	INDUCTOR 33UH	
L803	1-459-856-11	COIL, FERRITE	
L804	1-459-105-21	COIL (WITH CORE)	
	< TRANSISTOR >		
Q101	DELETED		
Q102	DELETED		
Q103	DELETED		
Q109	DELETED		
Q115	DELETED		
Q116	DELETED		
Q307	DELETED		
Q308	8-729-901-01	TRANSISTOR DTC144EK (KV-16WT1U)	
Q501	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q600	8-729-119-78	TRANSISTOR 2SC1740S-RT	
Q802	8-729-033-85	TRANSISTOR S2000N-16E305A	
Q804	8-729-202-03	TRANSISTOR 2SD1761-E	
	< RESISTOR >		
JR013	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR016	1-163-077-00	CERAMIC CHIP 0.1MF 10%	25V
JR020	DELETED		
JR022	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR024	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR028	1-216-296-91	METAL GLAZE 0 5%	1/8W
JR030	1-216-296-91	METAL GLAZE 0 5%	1/8W
JR031	1-216-296-91	METAL GLAZE 0 5%	1/8W
JR034	1-216-296-91	METAL GLAZE 0 5%	1/8W
R001	1-216-198-91	METAL GLAZE 1K 5%	1/8W
R002	1-216-033-00	METAL GLAZE 220 5%	1/10W
R012	1-216-089-91	METAL GLAZE 47K 5%	1/10W (KV-16WT1A)
	1-216-073-00	METAL GLAZE 10K 5%	1/10W (KV-16WT1/16WTK/16WT1R/16WT1U)
R034	1-249-429-11	CARBON 10K 5%	1/4W
R048	1-216-025-91	METAL GLAZE 100 5%	1/10W
R074	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W

A C U

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Replace only with the part number specified.

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R094	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R104	DELETED				
R105	DELETED				
R106	DELETED				
R107	DELETED				
R109	DELETED				
R112	DELETED				
R113	DELETED				
R114	DELETED				
R115	DELETED				
R143	DELETED				
R157	DELETED				
R162	DELETED				
R169	DELETED				
R170	DELETED				
R171	DELETED				
R180	DELETED				
R306	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R311	DELETED				
R312	1-216-093-91	METAL GLAZE	68K	5%	1/10W
R322	DELETED				
R326	1-216-295-00	METAL GLAZE	0	5%	1/10W
R327	1-216-097-00	METAL GLAZE	100K	5%	1/10W (KV-16WT1U)
R328	1-216-258-00	METAL GLAZE	330K	5%	1/8W
R329	DELETED				
R345	1-216-238-91	METAL GLAZE	47K	5%	1/8W
R347	DELETED				
R348	DELETED				
R349	DELETED				
R350	DELETED				
R357	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R362	1-216-023-00	METAL GLAZE	82	5%	1/10W
R363	1-216-023-00	METAL GLAZE	82	5%	1/10W
R409	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R417	1-216-295-00	METAL GLAZE	0	5%	1/10W
R502	1-216-806-11	METAL CHIP	10K	0.50%	1/10W
R509	1-249-380-11	CARBON	0.82	5%	1/4W F
R512	DELETED				
R515	DELETED				
R615	1-217-418-61	FUSIBLE	0.47	10%	1/2W F
R800	1-211-787-11	FUSIBLE	100	5%	1/4W
R806	1-216-372-00	METAL OXIDE	1.8	5%	2W F
R808	DELETED				
R811	1-216-478-11	METAL OXIDE	390	5%	3W
R812	DELETED				
R813	1-216-296-91	METAL GLAZE	0	5%	1/8W
R814	1-249-377-11	CARBON	0.47	5%	1/4W
R815	1-216-234-00	METAL GLAZE	33K	5%	1/8W
R818	1-202-830-00	SOLID	10K	10%	1/2W
R821	1-216-295-91	METAL GLAZE	0	5%	1/10W
R822	1-216-103-91	METAL GLAZE	180K	5%	1/10W
R823	1-249-423-11	CARBON	3.3K	5%	1/4W
R824	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R825	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R828	1-216-107-00	METAL GLAZE	270K	5%	1/10W
R829	1-215-912-11	METAL OXIDE	150	5%	3W
R830	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R831	1-215-917-11	METAL OXIDE	1K	5%	3W
R832	1-249-429-11	CARBON	10K	5%	1/4W
R833	1-249-417-11	CARBON	1K	5%	1/4W
R840	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W

< VARIABLE RESISTOR >

RV102	DELETED				
RV802	1-238-019-11	RES, ADJ, CARBON	47K		

< TRANSFORMER >

T602	1-468-090-11	TRANSFORMER, CONVERTER			

< CRYSTAL >

X301	1-760-907-21	VIBRATOR, CRYSTAL			

****

*A-1638-067-A C BOARD, COMPLETE
****

< CAPACITOR >

C701	1-163-137-00	CERAMIC CHIP	680PF	10%	50V
C702	1-163-139-00	CERAMIC CHIP	820PF	10%	50V
C703	1-163-139-00	CERAMIC CHIP	820PF	10%	50V
C711	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C712	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C713	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V

< DIODE >

D707	8-719-991-33	DIODE 1SS133T-77			

< CRT SOCKET >

J901	⚠ 1-251-311-11	SOCKET, CRT			

< RESISTOR >

R700	1-202-525-00	SOLID	10	5%	1/2W
R701	1-216-194-91	METAL GLAZE	680	5%	1/8W
R702	1-216-194-91	METAL GLAZE	680	5%	1/8W
R705	1-216-017-91	METAL GLAZE	47	5%	1/10W
R706	1-216-166-91	METAL GLAZE	47	5%	1/8W
R707	1-216-017-91	METAL GLAZE	47	5%	1/10W
R711	1-216-045-00	METAL GLAZE	680	5%	1/10W
R729	1-216-347-11	METAL OXIDE	0.68	5%	1W
R740	1-216-194-00	METAL GLAZE	680	5%	1/8W
R741	1-216-045-00	METAL GLAZE	680	5%	1/10W

****

*A-1648-006-A U BOARD, COMPLETE
****

< CAPACITOR >

C1001	1-124-903-11	ELECT	1MF	20%	50V
C1002	1-102-963-00	CERAMIC	33PF	5%	50V
C1003	1-102-963-00	CERAMIC	33PF	5%	50V
C1004	1-102-114-00	CERAMIC	470PF	10%	50V
C1005	1-126-967-11	ELECT	47MF	20%	16V
C1006	1-102-125-00	CERAMIC	0.0047MF	10%	50V

< CONNECTOR >

CN1001	1-568-879-11	PIN, CONNECTOR	4P		

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Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK

< FERRITE BEAD >

FB1001	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	

< IC >

IC1001	8-759-391-40	IC P87C750EBPN	

< TRANSISTOR >

Q1001	8-729-119-78	TRANSISTOR 2SC1740S-RT	

< RESISTOR >

R1001	1-249-417-11	CARBON	1K	5%	1/4W
R1002	1-249-417-11	CARBON	1K	5%	1/4W
R1003	1-249-417-11	CARBON	1K	5%	1/4W
R1004	1-247-863-91	CARBON	22K	5%	1/4W
R1005	1-247-807-31	CARBON	100	5%	1/4W
R1011	1-247-807-31	CARBON	100	5%	1/4W
R1016	1-249-399-11	CARBON	33	5%	1/4W
R1017	1-249-482-11	CARBON	8.2K	5%	1/4W
R1018	1-249-429-11	CARBON	10K	5%	1/4W

< CRYSTAL >

X1001	1-578-774-11	VIBRATOR, CRYSTAL	

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MISCELLANEOUS
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⚠	1-776-860-11	CORD, POWER (WITH FILTER) 2.5A/250V (KV-16WT1D)	

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ACCESSORIES AND PACKING MATERIALS
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	1-417-151-11	MATCHING TRANSFORMER, ANTENNA	
	1-501-730-11	ANTENNA, TELESCOPIC	

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